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OM protein - protein search, using sw model

Run on: March 18, 2005, 23:56:26 ; Search time 43 Seconds  
(without alignments)  
703.090 Million cell updates/sec

Title: US-09-820-095B-2  
Perfect score: 2226  
Sequence: 1 MGSPGATTGWLDDYKTEK.....TFGWPCPSDTHLPTHSGL 405

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2.6/prodata/1/aaa/5A\_COMB.pep:\*  
2: /cgn2.6/prodata/1/aaa/5B\_COMB.pep:\*  
3: /cgn2.6/prodata/1/aaa/6A\_COMB.pep:\*  
4: /cgn2.6/prodata/1/aaa/6B\_COMB.pep:\*  
5: /cgn2.6/prodata/1/aaa/PTCUS\_COMB.pep:\*  
6: /cgn2.6/prodata/1/aaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2203	99.0	431	US-09-381-681-3	Sequence 3, Appli
2	2203	99.0	441	US-09-191-136-31	Sequence 31, Appli
3	1554	69.8	379	US-09-191-136-32	Sequence 32, Appli
4	822	36.9	422	US-09-949-016-6238	Sequence 6238, Ap
5	816	36.7	388	US-08-742-621-1	Sequence 1, Appli
6	816	36.7	397	US-08-742-621-1	Sequence 9419, Ap
7	813	36.5	388	US-09-191-608-22	Sequence 22, Appli
8	794	35.7	388	US-08-750-134A-7	Sequence 7, Appli
9	794	35.7	388	US-09-363-745-7	Sequence 7, Appli
10	793	35.6	388	US-09-191-608-23	Sequence 23, Appli
11	744	33.4	399	US-08-742-621-3	Sequence 3, Appli
12	744	33.4	399	US-08-750-134A-11	Sequence 11, Appli
13	744	33.4	399	US-09-363-745-11	Sequence 11, Appli
14	744	33.4	399	US-09-949-016-6236	Sequence 6236, Ap
15	744	33.4	453	US-09-949-016-10007	Sequence 10007, A
16	739	33.2	399	US-08-742-621-4	Sequence 4, Appli
17	739	33.2	399	US-08-750-134A-5	Sequence 5, Appli
18	739	33.2	399	US-09-363-745-5	Sequence 5, Appli
19	720	32.3	472	US-08-742-621-5	Sequence 5, Appli
20	720	32.3	472	US-08-842-079-15	Sequence 15, Appli
21	720	32.3	472	US-09-638-857-15	Sequence 15, Appli
22	709	31.9	471	US-09-191-608-17	Sequence 17, Appli
23	694	31.2	404	US-09-191-608-18	Sequence 18, Appli
24	693	31.1	497	US-09-191-608-20	Sequence 20, Appli
25	679.5	30.5	397	US-08-750-134A-9	Sequence 9, Appli
26	679.5	30.5	397	US-09-363-745-9	Sequence 9, Appli
27	679.5	30.5	397	US-09-191-136-17	Sequence 17, Appli

28	673.5	30.3	397	3	US-09-191-136-16	Sequence 16, Appli
29	673.5	30.3	397	4	US-09-949-016-6237	Sequence 6237, Ap
30	631	28.3	447	3	US-09-191-608-19	Sequence 19, Appli
31	608.5	27.3	595	3	US-08-842-079-18	Sequence 18, Appli
32	608.5	27.3	595	3	US-08-842-079-20	Sequence 20, Appli
33	608.5	27.3	595	4	US-09-638-857-18	Sequence 18, Appli
34	608.5	27.3	595	4	US-09-638-857-20	Sequence 20, Appli
35	606.5	27.2	280	4	US-09-949-016-9249	Sequence 9249, Ap
36	606.5	27.2	280	4	US-09-949-016-9250	Sequence 9250, Ap
37	602.5	27.1	595	3	US-08-842-079-6	Sequence 6, Appli
38	602.5	27.1	595	3	US-08-842-079-17	Sequence 17, Appli
39	602.5	27.1	595	4	US-09-638-857-6	Sequence 6, Appli
40	602.5	27.1	595	4	US-09-638-857-17	Sequence 17, Appli
41	599	26.9	433	4	US-09-949-016-10009	Sequence 10009, A
42	528.5	23.7	256	4	US-09-949-016-7576	Sequence 7576, Ap
43	528.5	23.7	256	4	US-09-949-016-7577	Sequence 7577, Ap
44	515.5	23.2	289	4	US-09-949-016-10585	Sequence 10585, A
45	349	15.7	211	1	US-07-915-934-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1  
US-09-381-681-3  
; Sequence 3, Application US/09381681  
; Patent No. 6255472  
; GENERAL INFORMATION:  
; APPLICANT: TAKINO, Takashi  
; APPLICANT: NAKAMURA, Yusuke  
; TITLE OF INVENTION: HUMAN GENES  
; FILE REFERENCE: Q55876  
; CURRENT APPLICATION NUMBER: US/09/381,681  
; CURRENT FILING DATE: 2000-01-10  
; EARLIER APPLICATION NUMBER: JPA 9-093044  
; EARLIER FILING DATE: 1997-03-26  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 431  
; TYPE: PRT  
; ORGANISM: Human  
US-09-381-681-3

Query Match		99.0%	Score 2203;	DB 3;	Length 431;
Best Local Similarity		94.0%	Pred. No. 2.4e-235;		
Matches 405;		Conservative	0;	Mismatches	0;
				Indels	26;
				Gaps	1;
QY	1	MGSPGATTGWLDDYKTEK-----	-----WALLAKGYQBRDLE	34	
Db	1	MGSPGATTGWLDDYKTEKYVTRNVRV	GVGALQRLQLQFGIVVYVVGWALLAKGYQBRDLE	60	
QY	35	POFSITKLKGVSVTQIKELGNRLMDVAD	FVKPQGENVFELVTNPLVTPAQVQGRCPH	94	
Db	61	POFSITKLKGVSVTQIKELGNRLMDVAD	FVKPQGENVFELVTNPLVTPAQVQGRCPH	120	
QY	95	PSVPLANCWVDDCEPGEGETHSHGVKTC	QCVVFNTHRTCEIWSMCPVESGVVPSRPLL	154	
Db	121	PSVPLANCWVDDCEPGEGETHSHGVKTC	QCVVFNTHRTCEIWSMCPVESGVVPSRPLL	180	
QY	155	AQAQNTFLIKNTVTFKFNFSKNALETWD	PTYFKHCYEPQFSPYCPVFRIGDILVAKA	214	
Db	181	AQAQNTFLIKNTVTFKFNFSKNALETWD	PTYFKHCYEPQFSPYCPVFRIGDILVAKA	240	
QY	215	GCTFEDLALLGSGVIRVHWDCLDTGDSG	CHPHYSFQLQEKSYNPRTHHWEQGVSA	274	
Db	241	GCTFEDLALLGSGVIRVHWDCLDTGDSG	CHPHYSFQLQEKSYNPRTHHWEQGVSA	300	
QY	275	RTLLKLYGIRFDILVTGQAGKGLPTAVT	LTGTAALGVVTFCCDLLLLLYVDREAHFYW	334	
Db	301	RTLLKLYGIRFDILVTGQAGKGLPTAVT	LTGTAALGVVTFCCDLLLLLYVDREAHFYW	360	
QY	335	RTKYBEAKAPKATANSVVRRELALASQAR	LAECIRSSAPAPTATAAGSQTOTPGWPCPSS	394	

Db 361 RTKYEAKAPKATANSVWRELALASQARLAECIRSSAPAPTATAAGSQTQPGWPCPSS 420  
QY 395 DTHLPHSGSL 405  
Db 421 DTHLPHSGSL 431  
RESULT 2  
US-09-191-136-31  
; Sequence 31, Application US/09191136B  
; Patent No. 6214581  
; GENERAL INFORMATION:  
; APPLICANT: Abbott Laboratories  
; APPLICANT: Lynch, Kevin J.  
; APPLICANT: Burgard, Edward C.  
; APPLICANT: Van Biesen, T.  
; TITLE OF INVENTION: Nucleic Acids Encoding A Functional  
; TITLE OF INVENTION: Human Purinoreceptor P2X3 and P2X6 And Methods Of Production  
; FILE REFERENCE: 6293.US.P1  
; CURRENT APPLICATION NUMBER: US/09/191,136B  
; EARLIER FILING DATE: 1998-11-13  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER FILING DATE: 1998-01-16  
; NUMBER OF SEQ ID NOS: 32  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 31  
; LENGTH: 441  
; TYPE: PRT  
; ORGANISM: Homo sapiens (polypeptide)  
US-09-191-136-31  
Query Match 99.0%; Score 2203; DB 3; Length 441;  
Best Local Similarity 94.0%; Pred. No. 2,5e-235;  
Matches 405; Conservative 0; Mismatches 0; Indels 26; Gaps 1;  
QY 1 MGSPGATTGGLLDYKTEK-----WALLAKKGQYERDLE 34  
Db 11 MGSPGATTGGLLDYKTEKYVWTRNVRGALQRLQFGIVVVGWALLAKKGQYERDLE 70  
QY 35 POFSIITKLKGVSVTQIKELGNRLMDVADVFPKPPQGENVFFLVTNPLVTPAQQVQRCPEH 94  
Db 71 POFSIITKLKGVSVTQIKELGNRLMDVADVFPKPPQGENVFFLVTNPLVTPAQQVQRCPEH 130  
QY 95 PSVPLANCWVDECPGEGGTHSHGVKTGCQVVFNGTHRTCEIWSWCPVSGVVPSPRL 154  
Db 131 PSVPLANCWVDECPGEGGTHSHGVKTGCQVVFNGTHRTCEIWSWCPVSGVVPSPRL 190  
QY 155 AQAQNFLEIKNTVFSKFNFSKNALETWDPYFKHCRYEPOFSPYCPVFRIGDLVAKA 214  
Db 191 AQAQNFLEIKNTVFSKFNFSKNALETWDPYFKHCRYEPOFSPYCPVFRIGDLVAKA 250  
QY 215 GGTFFEDALLGSGVIRVHWDCLDTGDSGCWPHYSFQLQEKSYNFRNTHWHPQGV 274  
Db 251 GGTFFEDALLGSGVIRVHWDCLDTGDSGCWPHYSFQLQEKSYNFRNTHWHPQGV 310  
QY 275 RTLLKLYGRFDILVTGQAGKGLIPTAVTLGTGAWLGVVTFPCDILLLYVDRAHFY 334  
Db 311 RTLLKLYGRFDILVTGQAGKGLIPTAVTLGTGAWLGVVTFPCDILLLYVDRAHFY 370  
QY 335 RTKYEAKAPKATANSVWRELALASQARLAECIRSSAPAPTATAAGSQTQPGWPCPSS 394  
Db 371 RTKYEAKAPKATANSVWRELALASQARLAECIRSSAPAPTATAAGSQTQPGWPCPSS 430  
QY 395 DTHLPHSGSL 405  
|||||

Db 431 DTHLPHSGSL 441  
RESULT 3  
US-09-191-136-32  
; Sequence 32, Application US/09191136B  
; Patent No. 6214581  
; GENERAL INFORMATION:  
; APPLICANT: Abbott Laboratories  
; APPLICANT: Lynch, Kevin J.  
; APPLICANT: Burgard, Edward C.  
; APPLICANT: Van Biesen, T.  
; TITLE OF INVENTION: Nucleic Acids Encoding A Functional  
; TITLE OF INVENTION: Human Purinoreceptor P2X3 and P2X6 And Methods Of Production  
; FILE REFERENCE: 6293.US.P1  
; CURRENT APPLICATION NUMBER: US/09/191,136B  
; EARLIER FILING DATE: 1998-11-13  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER FILING DATE: 1998-01-16  
; NUMBER OF SEQ ID NOS: 32  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 32  
; LENGTH: 379  
; TYPE: PRT  
; ORGANISM: Rattus rattus  
US-09-191-136-32  
Query Match 69.8%; Score 1554; DB 3; Length 379;  
Best Local Similarity 75.7%; Pred. No. 2e-163;  
Matches 281; Conservative 26; Mismatches 38; Indels 26; Gaps 1;  
QY 6 ATTGWGLLDYKTEK-----WALLAKKGQYERDLEPQFSI 39  
Db 8 ALVSHGFLDYKTEKYVWTRNVRGALQRLQFGIVVVGWALLAKKGQYERDLEPQFSI 67  
QY 40 ITKLKGVSVTQIKELGNRLMDVADVFPKPPQGENVFFLVTNPLVTPAQQVQRCPEHSPVL 99  
Db 68 ITKLKGVSVTQIKELGNRLMDVADVFPKPPQGENVFFLVTNPLVTPAQQVQRCPEHSPVL 127  
QY 100 ANCWVDECPGEGGTHSHGVKTGCQVVFNGTHRTCEIWSWCPVSGVVPSPRLAQAQ 159  
Db 128 ANCWVDECPGEGGTHSHGVKTGCQVVFNGTHRTCEIWSWCPVSGVVPSPRLAQAQ 187  
QY 160 FTLFKNTVTSKFNFSKNALETWDPYFKHCRYEPOFSPYCPVFRIGDLVAKAGTPE 219  
Db 188 FTLFKNTVTSKFNFSKNALETWDPYFKHCRYEPOFSPYCPVFRIGDLVAKAGTPE 247  
QY 220 DLALGSGVIRVHWDCLDTGDSGCWPHYSFQLQEKSYNFRNTHWHPQGV 279  
Db 248 DLALGSGVIRVHWDCLDTGDSGCWPHYSFQLQEKSYNFRNTHWHPQGV 307  
QY 280 LYGRFDILVTGQAGKGLIPTAVTLGTGAWLGVVTFPCDILLLYVDRAHFYRTKYE 339  
Db 308 LYGRFDILVTGQAGKGLIPTAVTLGTGAWLGVVTFPCDILLLYVDRAHFYRTKYE 367  
QY 340 EAKAPKATANS 350  
Db 368 EAKAPKATANS 378  
RESULT 4  
US-09-949-016-6238  
; Sequence 6238, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.

;; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
;; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
;; FILE REFERENCE: CL001307  
;; CURRENT APPLICATION NUMBER: US/09/949,016  
;; CURRENT FILING DATE: 2000-04-14  
;; PRIOR APPLICATION NUMBER: 60/241,755  
;; PRIOR FILING DATE: 2000-10-20  
;; PRIOR APPLICATION NUMBER: 60/237,768  
;; PRIOR FILING DATE: 2000-10-03  
;; PRIOR APPLICATION NUMBER: 60/231,498  
;; PRIOR FILING DATE: 2000-09-08  
;; NUMBER OF SEQ ID NOS: 207012  
;; SOFTWARE: FASTSEQ for Windows Version 4.0  
;; SEQ ID NO 6238  
;; LENGTH: 422  
;; TYPE: PRT  
;; ORGANISM: Human  
US-09-949-016-6238

Query Match 36.9%; Score 822; DB 4; Length 422;  
Best Local Similarity 40.3%; Pred. No. 4e-82;  
Matches 173; Conservative 60; Mismatches 120; Indels 76; Gaps 9;  
QY 12 ILDYKTEK-----WALLAKGYOERDLSPQSIITKLG 45  
DB 13 LPDYKTEKVIANKKVGLLYRLLOASILAYLVVFLIKGGYQDVDTSLQSAVITKVG 72  
QY 46 VSVTQIKELGNLWDVADFKVPPQGNVFLVNTFLVTPAQVQGRCPHPSPVLANCWD 105  
DB 73 VAFNTSDLGQRIWDVADYVIPAQGENVFFVNTLVNQNVCAENEGIDGACSD 132  
QY 106 EDCPEGEGTHGHGKVTGCVVFNQTHR-TCEIWSMCPVESGVVPSRPLLAQAQNTFLP 164  
DB 133 SDCHAGEAVTAGNVKTRCLRGNLARGTCEIFAWCPLTSSRPEFLKEADFTFI 192  
QY 165 KNTVTPSKNFSKNALETWDTYFKHCYEPQSPYCPVFRIGDLVAKAGTFEDLALL 224  
DB 193 KNHIREPKFNFSKNVMYDKRSFLKSCHFGPK-NHYCPIFRIGLSIVRWAGSDFOIALR 251  
QY 225 GSGVGRVWDCDLDTGDSGCWPHYSF-LOLEK-----SYNFRATHWQPGVEART 276  
DB 252 GGVIGINIENWCDLDAKAECHPHYSFRLDNKLSVSSGYNFRFARYRDAAGVEFT 311  
QY 277 LKLYGIRFDILVTGQAGKFGLIPTAVTLGTGAALVGVVTFCDLLLVYDREAHFYWRT 336  
DB 312 LMKAYGIRFDVWNGK-----AFFCDLVLIYIKKREPFYDK 349  
QY 337 KYEAKAPKATANSVWRRLALASQARLAECLRRSSAPA-----PTATAGSQ 383  
DB 350 KYEVRGLSDSQEARDE---ASGLGLSEQL--TSGFGLLGMPEQOELQEPPEAKRGSS 404  
QY 384 TQTPGWPCP 392  
DB 405 QKNGSVCP 413

RESULT 5  
US-08-742-621-1  
; Sequence 1, Application US/08742621  
; Patent No. 5856129  
; GENERAL INFORMATION:  
; APPLICANT: HILLMAN, JENNIFER L.  
; APPLICANT: COLEMAN, ROGER  
; TITLE OF INVENTION: NOVEL HUMAN PURINOCEPTOR  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: US  
; ZIP: 94304  
; COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/742,621  
FILING DATE: Filed Herewith  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PP-0147 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 388 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY:  
CLONE: consensus  
US-08-742-621-1  
Query Match 36.7%; Score 816; DB 2; Length 388;  
Best Local Similarity 47.0%; Pred. No. 1.6e-81;  
Matches 155; Conservative 56; Mismatches 107; Indels 12; Gaps 4;  
QY 20 WALLAKGYOERDLSPQSIITKLAGSVSTQIKELGNRLWDVADFKVPPQGENVFLVNT 79  
DB 46 WYVWEKGYOETD-SVSSVTTKVGAVNTSKLGFRIWDVADYVIPAQENSFLVMTN 104  
QY 80 FLVTPAQVQGRCPHPSPVLANCWDVDEDCPEGEGTHGHGKVTGCVVFNQTHRCEIWS 139  
DB 105 VILTMNTQGLCEIPDATTV-CKSDASCTAGSAGTHSNGVSTGRCVAFNGSVKTCVAA 163  
QY 140 WCPVESGV-VPSRPLLAQAQNTFLFKNTVTPSKNFSKNALETWDTYFKHCYEPQF 198  
DB 164 WCPVEDDTHVQPAFLKAAENFTLVKNINWPKFNFSKRNILPNTTTLKSCIYDAKT 223  
QY 199 SYCPVFRIGDLVAKAGTFEDLALGSGVGRVWDCDLDTGDSGCWPHYSFQLE-- 255  
DB 224 DFCFIFRLKIVENAGHSFQDMAVEGGINGIQVWDCNLDRAASLCLPRYSFRDLTRD 283  
QY 256 -----KSYNFRATHWQPGVEARTLLKYGIRFDILVTGQAGKFGLIPTAVTLGTGA 309  
DB 284 VEHNVSQYNFRFAYKRYDRDLAGNEQRTLIKAYGIRFDIIVFGKAGKFDIIPMTINIGSGL 343  
QY 310 AMLGVTTFCDLLLVYDREAHFYWRTKYE 339  
DB 344 ALLGMATVLCIDIIVLYCMKRLYYREKKYK 373  
RESULT 6  
US-09-949-016-9419  
; Sequence 9419, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03

;; PRIOR APPLICATION NUMBER: 60/231,498  
;; PRIOR FILING DATE: 2000-09-08  
;; NUMBER OF SEQ ID NOS: 207012  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 9419  
;; LENGTH: 397  
;; TYPE: PRT  
;; ORGANISM: Human  
US-09-949-016-9419

Query Match 36.7%; Score 816; DB 4; Length 397;  
Best Local Similarity 47.0%; Pred. No. 1.7e-81;  
Matches 155; Conservative 56; Mismatches 107; Indels 12; Gaps 4;

QY 20 WALLAKKGQERDLPEQFSIITKLKGVSVTQIKELGNRLWDVADFKPPQGENVFLVTN 79  
DB 55 WFWVEKGQETD-SVSSVTTKVKGAVTNTSKLGFRIWDVADYVIPAQEENSLSFVTN 113  
QY 80 FLVTPAQVQRCPEHPSVPLANCWDEDCPEGGTSHGVKTCQCVFNGTHRTCEIWS 139  
DB 114 VILTMNQTCGLCEIPDATT-CKSDASCTAGSAGTHSGVSTGRCVAFNGSVKTCVAA 172  
QY 140 WCPVESGV-VPSRPILAAQONFTLFIKNTVTFSKNFNFKSNALETWDPYTFKHCRYPEQF 198  
DB 173 WCPVEDDTHVPOPAFLKAAENFTLLVKNINWYPKFNFKRNLPLNITTTYLKSCIYDAKT 232  
QY 199 SPYCPVFRIGDLVAKAGGTFEDLALGGSVGIRVHWDCLDTGDSGCWPHYSFOLQE--- 255  
DB 233 DFPCPIFRUGKIVENAGHGFQDMAVEGGIMGLQVNWDCNLDRAASCLLPFRYFRRLDTRD 292  
QY 256 -----KSYNFTATHWSPQGVARTLLKLYGIRFDILVTGQAGKFGLIPTAVTLGTGA 309  
DB 293 VEHNVSPGYNFRPAKYRDLAGNEQRTLIKAYGIRFDIIVFGKAGKFDIIPMTINIGSGL 352  
QY 310 AWLGVTTFCDLLLLYVDREAHFYWRTKYE 339  
DB 353 ALLGMATVLCIDIIVLYCMKRLYYREKKYK 382

RESULT 7  
US-09-191-608-22  
; Sequence 22, Application US/09191608  
; Patent No. 6242216  
; GENERAL INFORMATION:  
; APPLICANT: Lynch, Kevin J.  
; APPLICANT: Burgard, Edward C.  
; APPLICANT: Metzger, Randy E.  
; APPLICANT: Niforatos, Wende  
; APPLICANT: Touma, Edward B.  
; APPLICANT: Van Biesen, T.  
; TITLE OF INVENTION: Nucleic Acids Encoding a Functional  
; TITLE OF INVENTION: Human Purinoceptor P2X2 and P2X4 And Methods of Production  
; FILE REFERENCE: 6394.US.P1  
; CURRENT APPLICATION NUMBER: US/09/191,608  
; CURRENT FILING DATE: 1998-11-13  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 22  
; LENGTH: 388  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-191-608-22

Query Match 36.5%; Score 813; DB 3; Length 388;  
Best Local Similarity 47.0%; Pred. No. 3.5e-81;  
Matches 155; Conservative 55; Mismatches 108; Indels 12; Gaps 4;

QY 20 WALLAKKGQERDLPEQFSIITKLKGVSVTQIKELGNRLWDVADFKPPQGENVFLVTN 79  
DB 46 WFWVEKGQETD-SVSSVTTKVKGAVTNTSKLGFRIWDVADYVIPAQEENSLSFVTN 104  
QY 80 FLVTPAQVQRCPEHPSVPLANCWDEDCPEGGTSHGVKTCQCVFNGTHRTCEIWS 139

DB 105 VILTMNQTCGLCEIPDATT-CKSDASCTAGSAGTHSGVSTGRCVAFNGSVKTCVAA 163  
QY 140 WCPVESGV-VPSRPILAAQONFTLFIKNTVTFSKNFNFKSNALETWDPYTFKHCRYPEQF 198  
DB 164 WCPVEDDTHVPOPAFLKAAENFTLLVKNINWYPKFNFKRNLPLNITTTYLKSCIYDAKT 223  
QY 199 SPYCPVFRIGDLVAKAGGTFEDLALGGSVGIRVHWDCLDTGDSGCWPHYSFOLQE--- 255  
DB 224 DFPCPIFRUGKIVENAGHGFQDMAVEGGIMGLQVNWDCNLDRAASCLLPFRYFRRLDTRD 283  
QY 256 -----KSYNFTATHWSPQGVARTLLKLYGIRFDILVTGQAGKFGLIPTAVTLGTGA 309  
DB 284 VEHNVSPGYNFRPAKYRDLAGNEQRTLIKAYGIRFDIIVFGKAGKFDIIPMTINIGSGL 343  
QY 310 AWLGVTTFCDLLLLYVDREAHFYWRTKYE 339  
DB 344 ALLGMATVLCIDIIVLYCMKRLYYREKKYK 373

RESULT 8  
US-08-750-134A-7  
; Sequence 7, Application US/08750134A  
; Patent No. 5985603  
; GENERAL INFORMATION:  
; APPLICANT: VALERA, SOLEDAD  
; APPLICANT: BUELL, GARY  
; TITLE OF INVENTION: P2X RECEPTORS (PURINOCEPTOR FAMILY)  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: NIXON & VANDERHUYE P. C.  
; STREET: 1100 NORTH GLEBE ROAD  
; CITY: ARLINGTON  
; STATE: VIRGINIA  
; COUNTRY: U.S.A.  
; ZIP: 22201-4714  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/750,134A  
; FILING DATE: 22-JAN-1997  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: CRAWFORD, ARTHUR C.  
; REGISTRATION NUMBER: 25,327  
; REFERENCE/DOCKET NUMBER: 1430-116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 816-4006  
; TELEFAX: (703) 816-4100  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 388 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-750-134A-7

Query Match 35.7%; Score 794; DB 2; Length 388;  
Best Local Similarity 46.7%; Pred. No. 4.4e-79;  
Matches 154; Conservative 55; Mismatches 109; Indels 12; Gaps 4;

QY 20 WALLAKKGQERDLPEQFSIITKLKGVSVTQIKELGNRLWDVADFKPPQGENVFLVTN 79  
DB 46 WFWVEKGQETD-SVSSVTTKKAGAVTNTSQLGFRIWDVADYVIPAQEENSLSFVTN 104  
QY 80 FLVTPAQVQRCPEHPSVPLANCWDEDCPEGGTSHGVKTCQCVFNGTHRTCEIWS 139  
DB 105 MIVTVNQSTCPEIPD-KTSICNSDADCTPGSDVTHSSGVATGRCVFPFNESVKTCEVAA 163  
QY 140 WCPVESGV-VPSRPILAAQONFTLFIKNTVTFSKNFNFKSNALETWDPYTFKHCRYPEQF 198

Db 164 WCPVENDVGPPTAPFLKAAENFTLLVKNINWTPKFNFSKRNILPNITTSYLKSCIYNAQT 223  
 QY 199 SPYCPVFRIGDLVAKAGGTFFDLALIGSGVGRVHWDCLDGTGDSGWPHYSFQLOE--- 255  
 Db 224 DFFCFIFRLGTVIGDAGHSFQEMAVEGGIMGIQIKWDCNLDRAASLCLPRYSFRRLDTRD 283  
 QY 256 -----KSYNFRATTHWEQPGVEARTLLKLYGIRPDILVTQOAGKFGLIPTAVTLGTGA 309  
 Db 284 LEHNVSFGYVNFPAKYRDLAKGEQRTLTAKYIRFDIIVFGKAGKFDIIPMTINVGSL 343  
 QY 310 AWLGWVTFPCDLLLYVDREAHFYWRTKYE 339  
 Db 344 ALLGVATVLCDIVLYCMKKYYRDKKYK 373

RESULT 9  
 US-09-363-745-7  
 ; Sequence 7, Application US/09363745  
 ; Patent No. 6194162  
 ; GENERAL INFORMATION:  
 ; APPLICANT: VALERA, SOLEDAD  
 ; APPLICANT: BUELL, GARY  
 ; TITLE OF INVENTION: P2X RECEPTORS (PURINOCEPTOR FAMILY)  
 ; NUMBER OF SEQUENCES: 11  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: NIXON & VANDERHYE P.C.  
 ; STREET: 1100 NORTH GLEBE ROAD  
 ; CITY: ARLINGTON  
 ; STATE: VIRGINIA  
 ; COUNTRY: U.S.A.  
 ; ZIP: 22201-4714  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/363,745  
 ; FILING DATE:  
 ; CLASSIFICATION:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/750,134  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: CRAWFORD, ARTHUR C.  
 ; REGISTRATION NUMBER: 25,327  
 ; REFERENCE/DOCKET NUMBER: 1430-116  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (703) 816-4006  
 ; TELEFAX: (703) 816-4100  
 ; INFORMATION FOR SEQ ID NO: 7:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 388 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-09-363-745-7

Query Match 35.7%; Score 794; DB 3; Length 388;  
 Best Local Similarity 46.7%; Pred. No. 4.4e-79;  
 Matches 154; Conservative 55; Mismatches 109; Indels 12; Gaps 4;  
 QY 20 WALLAKGYQERDLBPQPSIIITKLKGVSVTQIKELGNRLWDVADFKPPQGENVFLVTN 79  
 Db 46 WYFVWEKGYQETD-SVSSVTTKAGVAVTNTSQLGFRWDVADYVIPAQENSFLIMTN 104  
 QY 80 FLVTPAQVQGRCPHPSVPLANCWVDEDCPEBGGTHSHGVTGQCVFNGTHRTCEIWS 139  
 Db 105 MIVTVNQSTQCTPEIPD-KTSCNSDADCTPGSVDTSHSGVATGRCVPFNSVKICEVAA 163  
 QY 140 WCPVESGV-VPSRPLLAQONFTLFIKNTVTSKFNFSKNALETWDPYFKHCYEPQF 198

Db 164 WCPVENDVGPPTAPFLKAAENFTLLVKNINWTPKFNFSKRNILPNITTSYLKSCIYNAQT 223  
 QY 199 SPYCPVFRIGDLVAKAGGTFFDLALIGSGVGRVHWDCLDGTGDSGWPHYSFQLOE--- 255  
 Db 224 DFFCFIFRLGTVIGDAGHSFQEMAVEGGIMGIQIKWDCNLDRAASLCLPRYSFRRLDTRD 283  
 QY 256 -----KSYNFRATTHWEQPGVEARTLLKLYGIRPDILVTQOAGKFGLIPTAVTLGTGA 309  
 Db 284 LEHNVSFGYVNFPAKYRDLAKGEQRTLTAKYIRFDIIVFGKAGKFDIIPMTINVGSL 343  
 QY 310 AWLGWVTFPCDLLLYVDREAHFYWRTKYE 339  
 Db 344 ALLGVATVLCDIVLYCMKKYYRDKKYK 373

RESULT 10  
 US-09-191-608-23  
 ; Sequence 23, Application US/09191608  
 ; Patent No. 6242216  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lynch, Kevin J.  
 ; APPLICANT: Burgard, Edward C.  
 ; APPLICANT: Metzger, Randy E.  
 ; APPLICANT: Niforatos, Wende  
 ; APPLICANT: Touma, Edward B.  
 ; APPLICANT: Van Biesen, T.  
 ; TITLE OF INVENTION: Nucleic Acids Encoding a Functional  
 ; TITLE OF INVENTION: Human Purinoceptor P2X2 and P2X4 And Methods Of Production  
 ; TITLE OF INVENTION: And Use Thereof  
 ; FILE REFERENCE: 6394.US.P1  
 ; CURRENT APPLICATION NUMBER: US/09/191,608  
 ; CURRENT FILING DATE: 1998-11-13  
 ; NUMBER OF SEQ ID NOS: 26  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 23  
 ; LENGTH: 388  
 ; TYPE: PRT  
 ; ORGANISM: Rattus rattus  
 ; US-09-191-608-23

Query Match 35.6%; Score 793; DB 3; Length 388;  
 Best Local Similarity 46.7%; Pred. No. 5.7e-79;  
 Matches 154; Conservative 55; Mismatches 109; Indels 12; Gaps 4;  
 QY 20 WALLAKGYQERDLBPQPSIIITKLKGVSVTQIKELGNRLWDVADFKPPQGENVFLVTN 79  
 Db 46 WYFVWEKGYQETD-SVSSVTTKAGVAVTNTSQLGFRWDVADYVIPAQENSFLIMTN 104  
 QY 80 FLVTPAQVQGRCPHPSVPLANCWVDEDCPEBGGTHSHGVTGQCVFNGTHRTCEIWS 139  
 Db 105 MIVTVNQSTQCTPEIPD-KTSCNSDADCTPGSVDTSHSGVATGRCVPFNSVKICEVAA 163  
 QY 140 WCPVESGV-VPSRPLLAQONFTLFIKNTVTSKFNFSKNALETWDPYFKHCYEPQF 198  
 Db 164 WCPVENDVGPPTAPFLKAAENFTLLVKNINWTPKFNFSKRNILPNITTSYLKSCIYNAQT 223  
 QY 199 SPYCPVFRIGDLVAKAGGTFFDLALIGSGVGRVHWDCLDGTGDSGWPHYSFQLOE--- 255  
 Db 224 DFFCFIFRLGTVIGDAGHSFQEMAVEGGIMGIQIKWDCNLDRAASLCLPRYSFRRLDTRD 283  
 QY 256 -----KSYNFRATTHWEQPGVEARTLLKLYGIRPDILVTQOAGKFGLIPTAVTLGTGA 309  
 Db 284 LEHNVSFGYVNFPAKYRDLAKGEQRTLTAKYIRFDIIVFGKAGKFDIIPMTINVGSL 343  
 QY 310 AWLGWVTFPCDLLLYVDREAHFYWRTKYE 339  
 Db 344 ALLGVATVLCDIVLYCMKKYYRDKKYK 373

RESULT 11  
 US-08-742-621-3  
 ; Sequence 3, Application US/08742621  
 ; Patent No. 5856129

GENERAL INFORMATION:  
 APPLICANT: HILLMAN, JENNIFER L.  
 APPLICANT: COLEMAN, ROGER  
 TITLE OF INVENTION: NOVEL HUMAN PURINOCEPTOR  
 NUMBER OF SEQUENCES: 5  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Incyte Pharmaceuticals, Inc.  
 STREET: 3174 Porter Drive  
 CITY: Palo Alto  
 STATE: CA  
 COUNTRY: US  
 ZIP: 94304  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSeq Version 1.5  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/742,621  
 FILING DATE: Filed Herewith  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER:  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Billings, Lucy J.  
 REGISTRATION NUMBER: 36,749  
 REFERENCE/DOCKET NUMBER: PF-0147 US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-855-0555  
 TELEFAX: 415-845-4166  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 399 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 IMMEDIATE SOURCE:  
 LIBRARY: GenBank  
 CLONE: 166438  
 US-08-742-621-3

Query Match 33.4%; Score 744; DB 2; Length 399;  
 Best Local Similarity 44.0%; Pred. No. 1.6e-73;  
 Matches 159; Conservative 56; Mismatches 128; Indels 18; Gaps 9;

QY 20 WALLAKGYQERDLEPQPSIIITKLKGVSVTOIKELGNRLWDVADFKVPPQGENVFFLVN 79  
 DB 47 WFLYKGYQTS-GLISSVSVKLGAVTQLPGLGPQVWDVADYVFPAGQDNSFVMTN 105

QY 80 FLVTPAQVQGRCPHPSVPLANCWDEDCPEGGGTHSHGVKTCOCVVFNGTHRTCEIWS 139  
 DB 106 FIVTPKQGYCAEHPEGI--CKEDSGCTPGKAKRKAQGIKTKCVAFNDVTVCIEIFG 163

QY 140 WCPVE-SGVVPSRPLLAQAQNFITFKNTVTFKSFNFKSNALETWDTPTFKHCYEPQF 198  
 DB 164 WCPVEVDDDIIPRALLREAENFTLFKNSISFPRFKVNRNLVEEVNAAHMKTCLFHKTL 223

QY 199 SPYCPVFRIGDLVAKAGTTFEDLALGSGSVGRVHWDCDLDTGDSGCGWPHYSFQ--LQEK 256  
 DB 224 HPLCPVFGYVGVVQESQNFSTLAEKGGVVGITIDWHCDLHWVHRHCRPIYEFHGLYEEK 283

QY 257 S----YNRTATHWQEQGVBEARTLLKLYGRFDILVTGQAGKFGILPTAVTLGGAWL 312  
 DB 284 NLSGPNFRFAHFVEN-GTNYRHLFKVGRFDILVDGKAGKFDIIPMTTIGSGIGIF 342

QY 313 GVVTFFCDLLLYVDREAHFY--WRTKYEAKAPKATANSVWRELALASQA--RLAECLRR 369  
 DB 343 GVATVCLDLLLHILPKRHHYKQKKFKAEDMGPGAEE---RDLAATSSLTGLQENMRT 398

QY 370 S 370  
 DB 399 S 399

RESULT 12  
 US-08-750-134A-11  
 ; Sequence 11, Application US/08750134A  
 ; Patent No. 5985603  
 ; GENERAL INFORMATION:  
 ; APPLICANT: VALERA, SOLEDAD  
 ; APPLICANT: BUELL, GARY  
 ; TITLE OF INVENTION: P2X RECEPTORS (PURINOCEPTOR FAMILY)  
 ; NUMBER OF SEQUENCES: 11  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: NIXON & VANDERHVE P.C.  
 ; STREET: 1100 NORTH GLEBE ROAD  
 ; CITY: ARLINGTON  
 ; STATE: VIRGINIA  
 ; COUNTRY: U.S.A.  
 ; ZIP: 22201-4714  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/750,134A  
 ; FILING DATE: 22-JAN-1997  
 ; CLASSIFICATION: 536  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: CRAWFORD, ARTHUR C.  
 ; REGISTRATION NUMBER: 25,327  
 ; REFERENCE/DOCKET NUMBER: 1430-116  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (703) 816-4006  
 ; TELEFAX: (703) 816-4100  
 ; INFORMATION FOR SEQ ID NO: 11:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 399 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-08-750-134A-11

Query Match 33.4%; Score 744; DB 2; Length 399;  
 Best Local Similarity 44.0%; Pred. No. 1.6e-73;  
 Matches 159; Conservative 56; Mismatches 128; Indels 18; Gaps 9;

QY 20 WALLAKGYQERDLEPQPSIIITKLKGVSVTOIKELGNRLWDVADFKVPPQGENVFFLVN 79  
 DB 47 WFLYKGYQTS-GLISSVSVKLGAVTQLPGLGPQVWDVADYVFPAGQDNSFVMTN 105

QY 80 FLVTPAQVQGRCPHPSVPLANCWDEDCPEGGGTHSHGVKTCOCVVFNGTHRTCEIWS 139  
 DB 106 FIVTPKQGYCAEHPEGI--CKEDSGCTPGKAKRKAQGIKTKCVAFNDVTVCIEIFG 163

QY 140 WCPVE-SGVVPSRPLLAQAQNFITFKNTVTFKSFNFKSNALETWDTPTFKHCYEPQF 198  
 DB 164 WCPVEVDDDIIPRALLREAENFTLFKNSISFPRFKVNRNLVEEVNAAHMKTCLFHKTL 223

QY 199 SPYCPVFRIGDLVAKAGTTFEDLALGSGSVGRVHWDCDLDTGDSGCGWPHYSFQ--LQEK 256  
 DB 224 HPLCPVFGYVGVVQESQNFSTLAEKGGVVGITIDWHCDLHWVHRHCRPIYEFHGLYEEK 283

QY 257 S----YNRTATHWQEQGVBEARTLLKLYGRFDILVTGQAGKFGILPTAVTLGGAWL 312  
 DB 284 NLSGPNFRFAHFVEN-GTNYRHLFKVGRFDILVDGKAGKFDIIPMTTIGSGIGIF 342

QY 313 GVVTFFCDLLLYVDREAHFY--WRTKYEAKAPKATANSVWRELALASQA--RLAECLRR 369  
 DB 343 GVATVCLDLLLHILPKRHHYKQKKFKAEDMGPGAEE---RDLAATSSLTGLQENMRT 398

QY 370 S 370  
 DB 399 S 399

## RESULT 13

US-09-363-745-11  
; Sequence 11, Application US/09363745  
; Patent No. 6194162  
; GENERAL INFORMATION:  
; APPLICANT: VALERA, SOLEDAD  
; APPLICANT: BUELL, GARY  
; TITLE OF INVENTION: P2X RECEPTORS (PURINOCEPTOR FAMILY)  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: NIXON & VANDERHYE P.C.  
; STREET: 1100 NORTH GLEBE ROAD  
; CITY: ARLINGTON  
; STATE: VIRGINIA  
; COUNTRY: U.S.A.  
; ZIP: 22201-4714  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/363,745  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/750,134  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: CRAWFORD, ARTHUR C.  
; REGISTRATION NUMBER: 25,327  
; REFERENCE/DOCKET NUMBER: 1430-116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 816-4006  
; TELEFAX: (703) 816-4100  
; INFORMATION FOR SEQ ID NO: 11:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 399 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-363-745-11

Query Match 33.4%; Score 744; DB 3; Length 399;

Best Local Similarity 44.0%; Pred. No. 1.6e-73;  
Matches 159; Conservative 56; Mismatches 128; Indels 18; Gaps 9;

QY	20	WALLAKKGYQERDLEPQPSIIITKLKGVSVTOIKELGNRLMDVADFKVPPQGENVFFLVN	79
DB	47	WVFLYKGYQTSS-GLISSVSVKLKGLAVTQLPGLGPQVWDVADYVFPAGDNSFVVMN	105
QY	80	FLVTPAQVQRCPEHPSVPLANCWDEDCPEBGGTHSHGVTGQCVVFNTHRTCEIWS	139
DB	106	FIVTPKQTQGYCAEHPEGGI--CKEDSGCTPGKAKKAGIIRTKVCAVNDTVKTCIEFG	163
QY	140	WCPVE--SGVVPSPRLAQAQNTFLTKNTVTSKFNFSKNALETWDPYFKHCRYEQP	198
DB	106	FIVTPKQTQGYCAEHPEGGI--CKEDSGCTPGKAKKAGIIRTKVCAVNDTVKTCIEFG	163
QY	140	WCPVE--SGVVPSPRLAQAQNTFLTKNTVTSKFNFSKNALETWDPYFKHCRYEQP	198
DB	164	WCPVEVDDIPRALUREAENFTLFKNSISPFKVRNRLNVEEVNAAHMTCLFHKTL	223
QY	199	SPYCPVFRIGDLVAKAGTTFEDLALGGSVGRVHWDCLDGTGDSGCWPHYSFQ--LQEK	256
DB	164	WCPVEVDDIPRALUREAENFTLFKNSISPFKVRNRLNVEEVNAAHMTCLFHKTL	223
QY	199	SPYCPVFRIGDLVAKAGTTFEDLALGGSVGRVHWDCLDGTGDSGCWPHYSFQ--LQEK	256
DB	224	HPLCPVFQGYGVVQESQNFSTLAEKGGVVGITIDWHCDLDHVRHCRPIYEFHGLYEK	283
QY	257	S-----YNFTATHWQPCVGEARTLLKLYGIRFDILVTQAGKFGLIPTAVTLGTGAWL	312
DB	284	NLSPGFNFRFARHVEN-GTNYRHLFKVFGIRFDILVDGKAGKFDIIPMTTIGSGIGIF	342
QY	313	GVVTPFCDLLLYVDREAHFY--WRTKYBEAKAPKATANSVRELALASQA--RLAECLRR	369
DB	343	GVATVLCDLLLHILPKRHHYKQKPKYAEADMGPGAAE-----RDLAATSTLGLQENMT	398

## RESULT 15

US-09-949-016-10007  
; Sequence 10007, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016

QY 370 S 370  
DB 399 S 399

## RESULT 14

US-09-949-016-6236  
; Sequence 6236, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6236  
; LENGTH: 399  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-6236

Query Match 33.4%; Score 744; DB 4; Length 399;

Best Local Similarity 44.0%; Pred. No. 1.6e-73;  
Matches 159; Conservative 56; Mismatches 128; Indels 18; Gaps 9;

QY	20	WALLAKKGYQERDLEPQPSIIITKLKGVSVTOIKELGNRLMDVADFKVPPQGENVFFLVN	79
DB	47	WVFLYKGYQTSS-GLISSVSVKLKGLAVTQLPGLGPQVWDVADYVFPAGDNSFVVMN	105
QY	80	FLVTPAQVQRCPEHPSVPLANCWDEDCPEBGGTHSHGVTGQCVVFNTHRTCEIWS	139
DB	106	FIVTPKQTQGYCAEHPEGGI--CKEDSGCTPGKAKKAGIIRTKVCAVNDTVKTCIEFG	163
QY	140	WCPVE--SGVVPSPRLAQAQNTFLTKNTVTSKFNFSKNALETWDPYFKHCRYEQP	198
DB	164	WCPVEVDDIPRALUREAENFTLFKNSISPFKVRNRLNVEEVNAAHMTCLFHKTL	223
QY	199	SPYCPVFRIGDLVAKAGTTFEDLALGGSVGRVHWDCLDGTGDSGCWPHYSFQ--LQEK	256
DB	224	HPLCPVFQGYGVVQESQNFSTLAEKGGVVGITIDWHCDLDHVRHCRPIYEFHGLYEK	283
QY	257	S-----YNFTATHWQPCVGEARTLLKLYGIRFDILVTQAGKFGLIPTAVTLGTGAWL	312
DB	284	NLSPGFNFRFARHVEN-GTNYRHLFKVFGIRFDILVDGKAGKFDIIPMTTIGSGIGIF	342
QY	313	GVVTPFCDLLLYVDREAHFY--WRTKYBEAKAPKATANSVRELALASQA--RLAECLRR	369
DB	343	GVATVLCDLLLHILPKRHHYKQKPKYAEADMGPGAAE-----RDLAATSTLGLQENMT	398

## RESULT 15

US-09-949-016-10007  
; Sequence 10007, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016





GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: March 18, 2005, 23:57:17 ; Search time 141 Seconds  
(without alignments)  
949.427 Million cell updates/sec

Title: US-09-820-095B-2

Perfect score: 2226

Sequence: 1 MGSPGATTGWLDDYKTEK.....TPGWPSPSDTHLPTHSGL 405

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1401741 seqs, 330541175 residues

Total number of hits satisfying chosen parameters: 1401741

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications\_AA.\*

- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/2/pubpaa/US10D\_PUBCOMB.pep.\*
- 17: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*
- 20: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2226	100.0	405	10	US-09-820-095-2
2	2203	99.0	431	10	US-09-820-095-4
3	1080.5	48.5	364	15	US-10-051-874-121
4	816	36.7	388	9	US-09-833-082-2
5	816	36.7	388	15	US-10-455-552-2
6	816	36.7	388	17	US-10-482-029-257
7	810	36.4	388	15	US-10-386-414-17
8	744	33.4	399	15	US-10-352-684A-54
9	709	31.9	459	14	US-10-345-680-11
10	709	31.9	459	15	US-10-051-874-123
11	704.5	31.6	397	16	US-10-408-765A-2202
12	694	31.2	402	11	US-09-764-875-905
13	694	31.2	404	15	US-10-051-874-124

14	693	31.1	497	15	US-10-051-874-120	Sequence 120, App
15	673.5	30.3	287	15	US-10-455-552-3	Sequence 3, Appl1
16	631	28.3	447	15	US-10-051-874-121	Sequence 121, App
17	631	28.3	447	15	US-10-051-874-122	Sequence 122, App
18	615	27.6	473	15	US-10-051-874-42	Sequence 42, Appl
19	611.5	27.5	595	16	US-10-408-765A-2166	Sequence 2166, Ap
20	608.5	27.3	595	16	US-10-622-313-1	Sequence 1, Appl1
21	608.5	27.3	595	16	US-10-789-241-40	Sequence 40, Appl1
22	606.5	27.2	595	16	US-09-977-221-4	Sequence 4, Appl1
23	606.5	27.2	595	16	US-10-766-978-4	Sequence 4, Appl1
24	593	26.2	348	15	US-10-336-472-52	Sequence 52, Appl
25	545.5	24.5	274	15	US-10-336-472-54	Sequence 54, Appl
26	500	22.5	260	15	US-10-104-047-2151	Sequence 2151, Ap
27	379.5	17.0	280	9	US-09-764-847-739	Sequence 739, App
28	379.5	17.0	280	11	US-09-764-875-1181	Sequence 1181, Ap
29	379.5	17.0	280	14	US-10-092-154-739	Sequence 739, App
30	250	11.2	50	9	US-09-864-761-38753	Sequence 38753, A
31	206	9.3	46	9	US-09-864-761-35496	Sequence 35496, A
32	102	4.6	636	14	US-10-156-761-13432	Sequence 13432, A
33	98.5	4.4	442	15	US-10-425-114-58714	Sequence 58714, A
34	98.5	4.4	3564	15	US-10-016-248-45	Sequence 45, Appl
35	95	4.3	754	15	US-10-108-260A-4450	Sequence 4450, Ap
36	94.5	4.2	394	9	US-09-925-301-1388	Sequence 1388, Ap
37	94.5	4.2	394	15	US-10-264-049-3011	Sequence 3011, Ap
38	94.5	4.2	628	14	US-10-176-847-108	Sequence 108, App
39	94.5	4.2	628	14	US-10-205-823-246	Sequence 246, App
40	94.5	4.2	628	15	US-10-257-021-6	Sequence 6, Appl1
41	94.5	4.2	628	15	US-10-257-021-70	Sequence 70, Appl
42	94.5	4.2	628	16	US-10-789-378-52	Sequence 52, Appl
43	94	4.2	1000	10	US-09-823-187-6	Sequence 6, Appl1
44	93.5	4.2	595	15	US-10-276-774-2369	Sequence 2369, Ap
45	93.5	4.2	2669	15	US-10-016-248-4	Sequence 4, Appl1

#### ALIGNMENTS

##### RESULT 1

US-09-820-095-2  
; Sequence 2, Application US/09820095  
; Publication No. US20030233668A1  
; GENERAL INFORMATION:  
; APPLICANT: WEI, Ming-Hui et al  
; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED  
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR  
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF  
; FILE REFERENCE: CL001202  
; CURRENT APPLICATION NUMBER: US/09/820,095  
; CURRENT FILING DATE: 2001-03-29  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 405  
; TYPE: PRT  
; ORGANISM: Human  
US-09-820-095-2

Query Match	100.0%;	Score	2226;	DB	10;	Length	405;
Best Local Similarity	100.0%;	Pred. No.	5.3e-214;				
Matches	405;	Conservative	0;	Mismatches	0;	Indels	0;
Gaps	0;						
QY	1	MGSPGATTGWLDDYKTEK	WALLAKKGYQERDLEPQFSIITKLKGVSVTQIKELGNRLWD	60			
Db	1	MGSPGATTGWLDDYKTEK	WALLAKKGYQERDLEPQFSIITKLKGVSVTQIKELGNRLWD	60			
QY	61	VADFVKPQGVNFFLVN	FLTPAQVQRCPEHPSVPLANCWVDSDCEGEGTTHSHGV	120			
Db	61	VADFVKPQGVNFFLVN	FLTPAQVQRCPEHPSVPLANCWVDSDCEGEGTTHSHGV	120			
QY	121	KTGQCVFNGTHRTCEI	NSMCVPSGVSFSPRLAQAFNFTLPIKNTVTFSPKFNFSKNA	180			
Db	121	KTGQCVFNGTHRTCEI	NSMCVPSGVSFSPRLAQAFNFTLPIKNTVTFSPKFNFSKNA	180			

QY 181 LETWDTPTFKHCYEPQFGSPYCPVFRIGDLVAKAGTFFEDLALLGSGVGIRVHWCDDLT 240  
DB 181 LETWDTPTFKHCYEPQFGSPYCPVFRIGDLVAKAGTFFEDLALLGSGVGIRVHWCDDLT 240  
QY 241 GDSGCWPHYSFQLOEKSYNFRATATHWEGVGEARTLLKLYGIRFDILVTGQAGKFLIP 300  
DB 241 GDSGCWPHYSFQLOEKSYNFRATATHWEGVGEARTLLKLYGIRFDILVTGQAGKFLIP 300  
QY 301 TAVTLGTGAWLGVTFDFCDLLLYVDREAHFWRKYBEAKAPKATANSVRELALASQ 360  
DB 301 TAVTLGTGAWLGVTFDFCDLLLYVDREAHFWRKYBEAKAPKATANSVRELALASQ 360  
QY 361 ARLAECRLRSSAPAPTATAAGSQTQPGWPCSSDTHLPTHSGSL 405  
DB 361 ARLAECRLRSSAPAPTATAAGSQTQPGWPCSSDTHLPTHSGSL 405

RESULT 2

US-09-820-095-4  
; Sequence 4, Application US/09820095  
; Publication No. US20030233668A1  
; GENERAL INFORMATION:  
; APPLICANT: WEI, Ming-Hui et al  
; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED  
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR  
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR  
; FILE REFERENCE: CL001202  
; CURRENT APPLICATION NUMBER: US/09/820,095  
; CURRENT FILING DATE: 2001-03-29  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 431  
; TYPE: PRT  
; ORGANISM: Human  
US-09-820-095-4

Query Match 99.0%; Score 2203; DB 10; Length 431;  
Best Local Similarity 94.0%; Pred. No. 1.2e-211;  
Matches 405; Conservative 0; Mismatches 0; Indels 26; Gaps 1;

QY 1 MGSFGATTGWLDDYKTEK-----WALLAKKGYQERDLE 34  
DB 1 MGSFGATTGWLDDYKTEKYNVTRNRVGLQRLQFGIYVVGWALLAKKGYQERDLE 60  
QY 35 POFSIITKLKGYSVTQIKELGNRLWDVADVPKPPQGENVFFLVTFNLTTPAQVQGRCPH 94  
DB 61 POFSIITKLKGYSVTQIKELGNRLWDVADVPKPPQGENVFFLVTFNLTTPAQVQGRCPH 120  
QY 95 PSVPLANCWVDEDCPEGEGGTHSHGVKTCQCVVFNTHRTCEIWSKCPVESGWVPSRPLL 154  
DB 121 PSVPLANCWVDEDCPEGEGGTHSHGVKTCQCVVFNTHRTCEIWSKCPVESGWVPSRPLL 180  
QY 155 AQOQNFTLFIKNTVTSKFNFSKNALETWDPYFKHCYEPQFGSPYCPVFRIGDLVAKA 214  
DB 181 AQOQNFTLFIKNTVTSKFNFSKNALETWDPYFKHCYEPQFGSPYCPVFRIGDLVAKA 240  
QY 215 GGTFFEDLALLGSGVGIRVHWCDDLTGDSGCWPHYSFQLOEKSYNFRATATHWEGVGEA 274  
DB 241 GGTFFEDLALLGSGVGIRVHWCDDLTGDSGCWPHYSFQLOEKSYNFRATATHWEGVGEA 300  
QY 275 RTLLKLYGIRFDILVTGQAGKFLIPTAVTLGTGAWLGVTFDFCDLLLYVDREAHFWR 334  
DB 301 RTLLKLYGIRFDILVTGQAGKFLIPTAVTLGTGAWLGVTFDFCDLLLYVDREAHFWR 360  
QY 335 RTKYBEAKAPKATANSVRELALASQARLAECRLRSSAPAPTATAAGSQTQPGWPCSS 394  
DB 361 RTKYBEAKAPKATANSVRELALASQARLAECRLRSSAPAPTATAAGSQTQPGWPCSS 420  
QY 395 DTHLPTHSGSL 405  
DB 421 DTHLPTHSGSL 431

RESULT 3  
US-10-051-874-125  
; Sequence 125, Application US/10051874  
; Publication No. US20040005557A1  
; GENERAL INFORMATION:  
; APPLICANT: Alsobrook II, John P  
; APPLICANT: Coleman, Steven D  
; APPLICANT: Spytek, Kimberly A  
; APPLICANT: Boldog, Ferenc  
; APPLICANT: Vernet, Corine AM  
; APPLICANT: Li, Li  
; APPLICANT: Shenoy, Suresh G  
; APPLICANT: Casman, Stacie J  
; APPLICANT: Guo, Xiaojia Sasha  
; APPLICANT: Edinger, Shlomit R  
; APPLICANT: MacDougall, John M  
; APPLICANT: Malyankar, Uriel M  
; APPLICANT: Patturajan, Meera  
; APPLICANT: Shinketa, Richard A  
; APPLICANT: Pena, Carol EA  
; APPLICANT: Tchernev, Velizar T  
; APPLICANT: Zerhusen, Bryan D  
; APPLICANT: Millet, Isabelle  
; APPLICANT: Miller, Charles E  
; APPLICANT: Lepley, Denise M  
; APPLICANT: Smithson, Glennda  
; APPLICANT: Baumgartner, Jason C  
; APPLICANT: Herrman, John L  
; APPLICANT: Peyman, John A  
; APPLICANT: Gorman, Linda  
; APPLICANT: Mezes, Peter D  
; APPLICANT: Kekuda, Ramesh  
; APPLICANT: Taupier Jr, Raymond J  
; APPLICANT: Gerlach, Valerie  
; APPLICANT: Grosse, William M  
; APPLICANT: Liu, Xiaohong  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Rothenberg, Mark  
; APPLICANT: Stone, David J  
; APPLICANT: Burgess, Catherine E  
; TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF  
; TITLE OF INVENTION: USING THE SAME  
; FILE REFERENCE: 21402-245  
; CURRENT APPLICATION NUMBER: US/10/051,874  
; CURRENT FILING DATE: 2002-09-25  
; PRIOR APPLICATION NUMBER: 60/268,595  
; PRIOR FILING DATE: 2001-02-14  
; PRIOR APPLICATION NUMBER: 60/325,306  
; PRIOR FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: 60/262,587  
; PRIOR FILING DATE: 2001-01-18  
; PRIOR APPLICATION NUMBER: 60/272,409  
; PRIOR FILING DATE: 2001-02-28  
; PRIOR APPLICATION NUMBER: 60/262,454  
; PRIOR FILING DATE: 2001-01-18  
; PRIOR APPLICATION NUMBER: 60/276,777  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/291,672  
; PRIOR FILING DATE: 2001-05-17  
; PRIOR APPLICATION NUMBER: 60/330,336  
; PRIOR FILING DATE: 2001-10-18  
; PRIOR APPLICATION NUMBER: 60/265,530  
; PRIOR FILING DATE: 2001-01-31  
; PRIOR APPLICATION NUMBER: 60/261,376  
; PRIOR FILING DATE: 2001-01-16  
; NUMBER OF SEQ ID NOS: 269  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 125  
; LENGTH: 364  
; TYPE: PRT  
; ORGANISM: Artificial Sequence

FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: p2X\_receptor  
; OTHER INFORMATION: domain sequence  
US-10-051-874-125

Query Match 48.5%; Score 1080.5; DB 15; Length 364;  
Best Local Similarity 56.1%; Pred. No. 2.9e-99;  
Matches 203; Conservative 44; Mismatches 80; Indels 35; Gaps 4;

QY 14 DYKTEK-----WALLAKGYQERDLEPQFSIITKLKGV 47  
DB 2 DYKTKYVVVRNKKVGLNRLVQLLLVYVGVFLIEKGYQDSSTLSQSVITKVGVA 61

QY 48 VTQIKELGNRLWDVADFKVPPQGENVFLVTNPLVTPAQVQGRCPHPSPVLANCWVDD 107  
DB 62 VNTSELGNRWVADYDVIYPPQGENVFFVVTNFTVTPNQTQGTCPHPPEVPDGTCKSD 121

QY 108 CPEGGGTHSHGVKTCQCVFNGT-HRTCEISWCPSGVSPRPILLAAQONFTIFKN 166  
DB 122 CTAGEAGTHGNGIKTGRCAVAFNGVRRTCEIFAWCPVEVDTPNPPLKAEENFTIFKN 181

QY 167 TWTFSKFNFSKNALETWPTVFKHCRYPQSPYCPVPRIGDLVAKAGGTPEDLALLGG 226  
DB 182 SIRPKFNFSKGNLKNKTDYTKHCRFHTNDPYCFPLGDNVVEKAGQDFDLALKGG 241

QY 227 SVGIRVHWDCLDLDGSGCMPHYSQ-----LOEKS-----YNFRATTHWWEQPGVEARTLL 278  
DB 242 VIGLIINWCDLDKAASECNPHYSFRLDNKKESVSPGYNFRFAKYRDDNNGVEVRTLL 301

QY 279 KLYGIRFDILVTQAGKFGILPTAVTLGCAWLGWVTFPCDLLILYVDREAHFYWTKY 338  
DB 302 KAYGIRFDVLVNGKAGKFDIIPITINIGSLASLGVGTFLCLDILLILYFLKGRHFRDKKF 361

QY 339 EE 340  
DB 362 EE 363

RESULT 4  
US-09-833-082-2  
; Sequence 2, Application US/09833082  
; Patent No. US20020151480A1  
; GENERAL INFORMATION:  
; APPLICANT: Chun, Miyoung  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING  
; TITLE OF INVENTION: CARDIOVASCULAR DISEASE USING 10218  
; FILE REFERENCE: MNI-227  
; CURRENT APPLICATION NUMBER: US/09/833,082  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 388  
; TYPE: PRT  
; ORGANISM: Homo Sapiens  
US-09-833-082-2

Query Match 36.7%; Score 816; DB 9; Length 388;  
Best Local Similarity 47.0%; Pred. No. 1e-72;  
Matches 155; Conservative 56; Mismatches 107; Indels 12; Gaps 4;

QY 20 WALLAKGYQERDLEPQFSIITKLKGVSVTQIKELGNRLWDVADFKVPPQGENVFLVTN 79  
DB 46 WYFVWEKGYQETD-SVSSSVTTKKGVAVTNTSKLGRFRIWDVADYVIPAQEENSFLVMTN 104

QY 80 FLVTPAQVQGRCPHPSPVLANCWDEDCPEGGGTHSHGVKTCQCVFNGTHRTCEIWS 139  
DB 105 VILTWNQTQGLCPEIDATTV-CKSDASCTAGSAGTHSNGVSTGRCAVFNKSVKTCVAA 163

QY 140 WCPVESGV-VPSRPLLAQONFTLFIKNTVTFSKFNFSKNALETWDPYFKHCRYPQ 198  
DB 164 WCPVEDDTHVPOPAFLKAAENFTLLVKNINWPKFNFSKRNLPNITITLKSICYDAKT 223

US-09-833-082-2

QY 199 SPYCPVFRIGDLVAKAGGTPEDLALLGGSVGIRVHWDCLDLDGSGCMPHYSQLOE--- 255  
DB 224 DPFCPIFRILGKIVENAGHSFQDMAVEGGIMGIQVWVNDCLNDRAASLCLPRYSFRRLDTRD 283

QY 256 -----KSYNFRATTHWWEQPGVEARTLLKLYGIRFDILVTQAGKFGILPTAVTLGTCA 309  
DB 284 VEHNVSPGYNFRFAKYRDLAGNEORTLIKAYGIRFDIIVFGKAGKFDIIPITMINIGSGL 343

QY 310 AWLGWVTVTFPCDLLILYVDREAHFYWTKYE 339  
DB 344 ALLGMATVLCDIIVLYCMKKRLYYREKKYK 373

RESULT 5  
US-10-455-552-2  
; Sequence 2, Application US/10455552  
; Publication No. US20040018533A1  
; GENERAL INFORMATION:  
; APPLICANT: Adam, Gail Isabel  
; APPLICANT: Langdown, Maria  
; APPLICANT: Roth, Richard  
; APPLICANT: Denissenko, Mikhail  
; APPLICANT: Smylie, Kevin  
; TITLE OF INVENTION: DIAGNOSING PREDISPOSITION TO FAT  
; TITLE OF INVENTION: DEPOSITION AND THERAPEUTIC METHODS FOR REDUCING FAT  
; TITLE OF INVENTION: DEPOSITION AND TREATMENT OF ASSOCIATED CONDITIONS  
; FILE REFERENCE: 52459-20030.00  
; CURRENT APPLICATION NUMBER: US/10/455,552  
; CURRENT FILING DATE: 2003-06-04  
; PRIOR APPLICATION NUMBER: US 60/386,012  
; PRIOR FILING DATE: 2002-06-04  
; NUMBER OF SEQ ID NOS: 98  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 388  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-455-552-2

Query Match 36.7%; Score 816; DB 15; Length 388;  
Best Local Similarity 47.0%; Pred. No. 1e-72;  
Matches 155; Conservative 56; Mismatches 107; Indels 12; Gaps 4;

QY 20 WALLAKGYQERDLEPQFSIITKLKGVSVTQIKELGNRLWDVADFKVPPQGENVFLVTN 79  
DB 46 WYFVWEKGYQETD-SVSSSVTTKKGVAVTNTSKLGRFRIWDVADYVIPAQEENSFLVMTN 104

QY 80 FLVTPAQVQGRCPHPSPVLANCWDEDCPEGGGTHSHGVKTCQCVFNGTHRTCEIWS 139  
DB 105 VILTWNQTQGLCPEIDATTV-CKSDASCTAGSAGTHSNGVSTGRCAVFNKSVKTCVAA 163

QY 140 WCPVESGV-VPSRPLLAQONFTLFIKNTVTFSKFNFSKNALETWDPYFKHCRYPQ 198  
DB 164 WCPVEDDTHVPOPAFLKAAENFTLLVKNINWPKFNFSKRNLPNITITLKSICYDAKT 223

QY 199 SPYCPVFRIGDLVAKAGGTPEDLALLGGSVGIRVHWDCLDLDGSGCMPHYSQLOE--- 255  
DB 224 DPFCPIFRILGKIVENAGHSFQDMAVEGGIMGIQVWVNDCLNDRAASLCLPRYSFRRLDTRD 283

QY 256 -----KSYNFRATTHWWEQPGVEARTLLKLYGIRFDILVTQAGKFGILPTAVTLGTCA 309  
DB 284 VEHNVSPGYNFRFAKYRDLAGNEORTLIKAYGIRFDIIVFGKAGKFDIIPITMINIGSGL 343

QY 310 AWLGWVTVTFPCDLLILYVDREAHFYWTKYE 339  
DB 344 ALLGMATVLCDIIVLYCMKKRLYYREKKYK 373

RESULT 6  
US-10-482-029-257  
; Sequence 257, Application US/10482029  
; Publication No. US20050037445A1  
; GENERAL INFORMATION:



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; PRIOR APPLICATION NUMBER: US 60/375,626
; PRIOR FILING DATE: 2002-04-26
; PRIOR APPLICATION NUMBER: US 60/386,494
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/390,965
; PRIOR FILING DATE: 2002-06-24
; PRIOR APPLICATION NUMBER: US 60/392,480
; PRIOR FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: US 60/394,128
; PRIOR FILING DATE: 2002-07-03
; PRIOR APPLICATION NUMBER: US 60/399,783
; PRIOR FILING DATE: 2002-07-31
; PRIOR APPLICATION NUMBER: US 60/403,221
; PRIOR FILING DATE: 2002-08-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 399
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-352-684A-54

Query Match      33.4%; Score 744; DB 15; Length 399;
Best Local Similarity 44.0%; Pred. No. 1.7e-65;
Matches 159; Conservative 56; Mismatches 128; Indels 18; Gaps 9;

QY 20 WALLAKGYQERDLEPQFSIIKLGVSVTQIKELGNRLWDVADFVKPPQGENVFLVTN 79
DB 47 WFLYKGYQTS-GLISSVSKLGLAVTQFLGLPQVMDVADYVFPAGQNSFVMTN 105

QY 80 FLVTPAQVQGRCPHPSVPLANCWDEDCPEGEGTHSHGVTGQCVFNGTHRTCEIWS 139
DB 106 FIVTPKTOGYCAEHPEGI--CKEDSGCTPGKAKKKAQGIKCAFNFTVKICEIFG 163

QY 140 WCPVR-SGVVPSRPLLAQONFTLPIKNTVTSKFNFSKNALETWDPYFKHCRYEPOF 198
DB 164 WCPVEVDDIPRALIREAENFTLTKNSISPPRFKVRNRLVEEVNAAHMTKCLFHKT 223

QY 199 SPYCPVFRIGDIAVAKAGTFEDLALGSGVGRVHWDCLDTGDSGWPHYSFQ--LQEK 256
DB 224 HPLCPVPQGYVQSGSQNFSTLAEGGVVGTITDWHCDLHVHRCRPIYFHHGLYEBK 283

QY 257 S-----YNFRTATHWHPQGVARTLLKXGIRFDILVTQAGKFGILPTAVTLGTGAWL 312
DB 284 NLSPGNFARFARFVEN-GTNYRHLPKVGIRFDILVDGKAGKFDIIPWTITGSGIGIF 342

QY 313 GVVTFFCDLLLYVDREAHFY--WRTKYEEAKAPKATANSVRELALASQA-RLAECLRR 369
DB 343 GVATVLCDLLLHLLPKRHYKQKPKYAEADMGPGAAB---RDLAATSTSLGLOENMET 398

QY 370 S 370
DB 399 S 399

RESULT 9
US-10-345-680-11
; Sequence 11, Application US/10345680
; Publication No. US20030148394A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Silos-Santiago, Immaculada
; APPLICANT: Venkateswarlu, Karicheti
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; TITLE OF INVENTION: UROLOGICAL DISORDERS USING 1435, 559, 34021, 44099, 25278,
; TITLE OF INVENTION: 641, 260, 55089, 21407, 42032, 46656, 62553, 302, 323,
; TITLE OF INVENTION: 12303, 985, 13237, 13601, 18926, 318, 2058 OR 6351 MOLECULES.
; FILE REFERENCE: MP102-012PIRNM OWN
; CURRENT APPLICATION NUMBER: US/107345,680
; PRIOR FILING DATE: 2003-01-16
; PRIOR APPLICATION NUMBER: US 60/349,511
; PRIOR FILING DATE: 2002-01-18

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; PRIOR APPLICATION NUMBER: US 60/360,500
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/365,041
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 60/374,063
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/403,468
; PRIOR FILING DATE: 2002-08-14
; PRIOR APPLICATION NUMBER: US 60/414,262
; PRIOR FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: US 60/419,986
; PRIOR FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: US 60/423,809
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: US 60/429,797
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 459
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-345-680-11

Query Match      31.9%; Score 709; DB 14; Length 459;
Best Local Similarity 36.9%; Pred. No. 6.8e-62;
Matches 158; Conservative 66; Mismatches 154; Indels 50; Gaps 9;

QY 10 WCLL-DYKTEK-----WALLAKGYQERDLEPQFSIIK 42
DB 10 WSLMDYETPKVIVVNRRLGLVLYRAVQLLLLYFWVIVVQKSYQSESGPESIIK 69

QY 43 LKGVSVTQIKELGNRLWDVADFVKPPQGENVFLVTNPLVTPAQVQGRCPHPSVPLANC 102
DB 70 VKGIITSE-----HKVMDVEEVKPEGGSVFSIIITRVEATHSQGTCTCPSIRVHNATC 124

QY 103 WDEDCPEGEGTHSHGVTGQCV-VFNGTHRTCEIWSKCPVSVGVVPSRPLLAQONFT 161
DB 125 LSDADCVAGELMDLNGRLTGRCPYQYQSPKTCVFGWCPVEDGASVSQFLGTMAPNFT 184

QY 162 LEIKNTVTFSEKFNFSKNALETWDPYFKHCRYEPOFSPYCPVFRIGDIAVAKAGTFEDL 221
DB 185 ILIKNSIHYPKFPHFSKGNIAADRTD-GYLKRCFTHEASDLICPFLKGLFIVEKAGSFTEL 243

QY 222 ALLGSGVGRVHWDCLDTGDSGWPHYSFQEQE-----KSYNFRTATHWHPQGVREA 274
DB 244 AHKGGVIGVINWDCDLDPASECNPYSFRFLDPKHVPASSGYNFRFA-KYYKINGTTT 302

QY 275 RFLKLYGIRFDILVTQAGKFGILPTAVTLGTGAAMLGVVTFPCDLLLYVDREAHFYW 334
DB 303 RTLIKAYGIRIDVIVHGQAGKPSLIPTIINLATALTSVGVGSFLCDWILLTFMKNKQVYS 362

QY 335 RTKYEEAKAPKATANSVRELALASQA-RLAECLRRS--SAPAPTATAAGSQ-----TQT 386
DB 363 HKFKDKVCTPSPHSGSWPVTTLARVLGQAPPPEPHRSEDOHPSPSGQEQGQAECGAPP 422

QY 387 PGWPCPSS 394
DB 423 PLRCPIS 430

RESULT 10
US-10-051-874-123
; Sequence 123, Application US/10051874
; Publication No. US20040005557A1
; GENERAL INFORMATION:
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Alsobrook II, John P
; APPLICANT: Colman, Steven D
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Boldog, Ferenc
; APPLICANT: Vernet, Corine AM
; APPLICANT: Li, Li

```

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; APPLICANT: Shenoy, Suresh G
; APPLICANT: Casman, Stacie J
; APPLICANT: Guo, Xiaojia Sasha
; APPLICANT: Edinger, Shlomit R
; APPLICANT: MacDougall, John R
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Patturajan, Meera
; APPLICANT: Shinkets, Richard A
; APPLICANT: Pena, Carol EA
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Zerhusen, Bryan D
; APPLICANT: Millet, Isabelle
; APPLICANT: Miller, Charles E
; APPLICANT: Lepley, Denise M
; APPLICANT: Smithson, Glenda
; APPLICANT: Baumgartner, Jason C
; APPLICANT: Herrman, John L
; APPLICANT: Feyman, John A
; APPLICANT: Gorman, Linda
; APPLICANT: Mezes, Peter D
; APPLICANT: Kekuda, Rameeh
; APPLICANT: Taupier Jr, Raymond J
; APPLICANT: Gerlach, Valerie
; APPLICANT: Grose, William M
; APPLICANT: Liu, Xiaohong
; APPLICANT: Ellerman, Karen
; APPLICANT: Rothenberg, Mark
; APPLICANT: Stone, David J
; APPLICANT: Burgess, Catherine E
; TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF
; TITLE OF INVENTION: USING THE SAME
; FILE REFERENCE: 21402-245
; CURRENT APPLICATION NUMBER: US/10/051,874
; CURRENT FILING DATE: 2002-09-25
; PRIOR APPLICATION NUMBER: 60/268,595
; PRIOR FILING DATE: 2001-02-14
; PRIOR APPLICATION NUMBER: 60/325,306
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: 60/262,587
; PRIOR FILING DATE: 2001-01-18
; PRIOR APPLICATION NUMBER: 60/272,409
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/262,454
; PRIOR FILING DATE: 2001-01-18
; PRIOR APPLICATION NUMBER: 60/276,777
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/291,672
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: 60/330,336
; PRIOR FILING DATE: 2001-10-18
; PRIOR APPLICATION NUMBER: 60/265,530
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/261,376
; PRIOR FILING DATE: 2001-01-16
; NUMBER OF SEQ ID NOS: 269
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 123
; LENGTH: 459
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-051-874-123

Query Match 31.9%; Score 709; DB 15; Length 459;
Best Local Similarity 36.9%; Pred. No. 6.8e-62;
Matches 158; Conservative 66; Mismatches 154; Indels 50; Gaps 9;

QY 10 WGLL-DYKTEK-----WALLAKGYQERDLEPQFSIITK 42
DB 10 WSAWDYETPKVIVVRNRRLGVLXRAVQLLLLYFVWVFIKQYQSESGTGPSSIITK 69
QY 43 LKGVSVTQIKELGNRLWDVADFKPPQGENVFLVTLNLTVAQVQGRCPHPSPVPLANC 102
DB 70 VKGITTS-----HKVWDVEEYKPPGGSVFSIITRVEATHSQTQGTCPESIRVHNATC 124

; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Faby, Boin D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Warnock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408,765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2202
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-2202

Query Match 31.6%; Score 704.5; DB 16; Length 397;
Best Local Similarity 36.4%; Pred. No. 1.6e-61;
Matches 156; Conservative 58; Mismatches 114; Indels 101; Gaps 11;

QY 12 LLDYKTEK-----WALLAKGYQERDLEPQFSIITK 45
DB 13 LFDYKTEKYVIKKNKGVLLYRLAQASILAYLVWVFLIKKGQDVDSLSQSAVITKVG 72
QY 46 VSVTQIKELGNRLWDVADFKPPQGENVFLVTLNLTVAQVQGRCPHPSPVPLANCWD 105
DB 73 VAFTNTSLGQRIWDVADYVIPAQNE-----GIPDGACSKD 108
QY 106 EDCPEGEGTHSHGKTKQCVVFNHGTHTCEIWSWCPVSGVWVPSRPLLAQAOFTLFI 164
DB 109 SDCHAGEAVTAGNGVKTKGRCLRRNLRNARGTCETIIFAWCEIETSSRPEEFLEKEDFTIFI 168
QY 165 KNTVTFSKFNFSKNALETWDTPTFKHCYRYPQFSYPCVFRIGDLVAKAGTFFDL 224
DB 169 KNIHFRFPKFNFS--NNVMDVKDRSFLKSCHFQPK-NHYCPIFRLGSVIRWAGSDFOIDALE 226
QY 225 GGSVGIHVHWDCCDLTGDSCGWPHYSFQLOE-----KSYNFRATATHWWEQGV 276
DB 276 KNIHFRFPKFNFS--NNVMDVKDRSFLKSCHFQPK-NHYCPIFRLGSVIRWAGSDFOIDALE 276
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QY 103 WDEDCPEGEGTHSHGKTKQCV-VFNHGTHTCEIWSWCPVSGVWVPSRPLLAQAOFT 161
DB 125 LSDADCVAGELDMNGRLTGRCPYQPKTEVFQWCPVEDGASVQFLGTWAPNFT 184
QY 162 LFIKNTVTFSKFNFSKNALETWDTPTFKHCYRYPQFSYPCVFRIGDLVAKAGTFFDL 221
DB 185 ILIKNSIHVPKFPKFNFSKNALETWDTPTFKHCYRYPQFSYPCVFRIGDLVAKAGTFFDL 243
QY 222 ALLGSSVGIHVHWDCCDLTGDSCGWPHYSFQLOE-----KSYNFRATATHWWEQGV 274
DB 244 AHKGGVIGVIIINWDCDLDPASECNPKYSFRRLDPKHVPASSGYNFRFA-KYYKINGTTT 302
QY 275 RTLLKLYGIRFDILVTGQAGKFLIPTAVTLTGTAAGLVVTFDFCDLLLLVVDREAHFVW 334
DB 303 RTLLKLYGIRFDILVTGQAGKFLIPTAVTLTGTAAGLVVTFDFCDLLLLVVDREAHFVW 362
QY 335 RTKYBEAKAPKATANSVWRELALASQARLABCLRRS--SAPAPTATAAGSQ-----TQT 386
DB 363 HKKPKDKVCTPSHPSGSWPVTTLARVLGQAPPBPFGHRSEDPHPSPSGQSGQGAECGPAPP 422
QY 387 PQWPCPSS 394
DB 423 FLRPPCPIS 430
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RESULT 11
US-10-408-765A-2202
; Sequence 2202, Application US/10408765A
; Publication No. US20040101874A1
; GENERAL INFORMATION:
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Faby, Boin D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Warnock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408,765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2202
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-2202
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Query Match 31.6%; Score 704.5; DB 16; Length 397;
Best Local Similarity 36.4%; Pred. No. 1.6e-61;
Matches 156; Conservative 58; Mismatches 114; Indels 101; Gaps 11;

QY 12 LLDYKTEK-----WALLAKGYQERDLEPQFSIITK 45
DB 13 LFDYKTEKYVIKKNKGVLLYRLAQASILAYLVWVFLIKKGQDVDSLSQSAVITKVG 72
QY 46 VSVTQIKELGNRLWDVADFKPPQGENVFLVTLNLTVAQVQGRCPHPSPVPLANCWD 105
DB 73 VAFTNTSLGQRIWDVADYVIPAQNE-----GIPDGACSKD 108
QY 106 EDCPEGEGTHSHGKTKQCVVFNHGTHTCEIWSWCPVSGVWVPSRPLLAQAOFTLFI 164
DB 109 SDCHAGEAVTAGNGVKTKGRCLRRNLRNARGTCETIIFAWCEIETSSRPEEFLEKEDFTIFI 168
QY 165 KNTVTFSKFNFSKNALETWDTPTFKHCYRYPQFSYPCVFRIGDLVAKAGTFFDL 224
DB 169 KNIHFRFPKFNFS--NNVMDVKDRSFLKSCHFQPK-NHYCPIFRLGSVIRWAGSDFOIDALE 226
QY 225 GGSVGIHVHWDCCDLTGDSCGWPHYSFQLOE-----KSYNFRATATHWWEQGV 276
DB 276 KNIHFRFPKFNFS--NNVMDVKDRSFLKSCHFQPK-NHYCPIFRLGSVIRWAGSDFOIDALE 276
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Db 227 GGVIININWNCDDKAASECHPHYSFSLDNKLSKSVSSGVNFRFARYRDAAGVERT 286  
QY 277 LKLYGIRDIIVTGOAGFGFLIPTAVTILGTGAAMLGVVVTFFCDLILLYVDREAHFYWT 336  
Db 287 LKAYGIRFDVWNGK-----AFCDLVLYLKKREFYDK 324  
QY 337 KYEAKAPKATANSVWRELALASQARLACLRSSAPA-----PTATAAGSQ 383  
Db 325 KYEEVRGLDSSQEADE---ASGLGLSQL--TSGPGLLGMPEQOQLQEPKARKGSS 379  
QY 384 TQTPGWPCP 392  
Db 380 QKNGSVCP 388

RESULT 12

US-09-764-875-905  
; Sequence 905, Application US/09764875  
; Publication No. US20040018969A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PJ202  
; CURRENT APPLICATION NUMBER: US/09/764,875  
; Prior application data removed - consult PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1249  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 905  
; LENGTH: 402  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-764-875-905

Query Match 31.2%; Score 694; DB 11; Length 402;  
Best Local Similarity 38.8%; Pred. No. 1.8e-60;  
Matches 142; Conservative 63; Mismatches 119; Indels 42; Gaps 7;

QY 10 WGLL-DYKTEK-----WALLAKGYQERDLBPQFSIITK 42  
Db 20 WSLMDYETPKVIVVNRRLGVLYRAVQLLILLYFWYVFIQKSVQSESTGPESSIITK 79  
QY 43 LKGVSVTOIKELGNRLMDVADFKPPQGENVFLVTLNLTTPAQVQGRCPHSPVPLANC 102  
Db 80 VKGITTSE-----HKWVDEEVKPPGGSVFIIIRVEATHSQTQCTCPESIRVHNATC 134  
QY 103 WYDEDCPEGGTHSHGVITGCV-VFNGTHRTCEIWSWCPVSGVVPSPRLLAQANFT 161  
Db 135 LSDADCVAGELMDLGNLRTGRCVPTYQGFPSKTCVFVGMCPVEDGASVSQFLGTWAPNFT 194  
QY 162 LFIKNTVTFSEKFNFSKNALETWDPYFKHCRVEPQFSPYCFRIGDLVAKAGGTFFDL 221  
Db 195 ILIKNSIHYPKPHFSKGNADRTD-GYLKRCITHEASDLYCFILGFIIVEKAGSFTEL 253  
QY 222 ALIGGSVGRVHWDCDLDTGDCSCWPHYSFQJQE-----KSYNFRATATHWQPGVBEA 274  
Db 254 AHKGGVIGVIINWDCDLDPASECNPKYSFRRLDPKHVPASSGVNFRFA-KYKINGTTT 312  
QY 275 RTLLKLYGRFDILVTGQAGKGLIPTAVTLGTGAAMLGVVVTFFCDLILLYVDREAHFYW 334  
Db 313 RTLIKAYGRIDVIVHGOAGKFSLIPTIINLATALTSVGVGSLCDWILLTFMKNKQVYS 372  
QY 335 RTKYER 340  
Db 373 HKKFPDK 378

RESULT 13

US-10-051-874-124  
; Sequence 124, Application US/10051874  
; Publication No. US20040005557A1  
; GENERAL INFORMATION:  
; APPLICANT: Padigar, Muralidhara

; APPLICANT: Alsobrook II, John P  
; APPLICANT: Colman, Steven D  
; APPLICANT: Spytek, Kimberly A  
; APPLICANT: Boldog, Ferenc  
; APPLICANT: Vernet, Corine AM  
; APPLICANT: Li, Li  
; APPLICANT: Shenoy, Suresh G  
; APPLICANT: Casman, Stacie J  
; APPLICANT: Guo, Xiaojia Sasha  
; APPLICANT: Edinger, Shlomit R  
; APPLICANT: MacDougall, John R  
; APPLICANT: Malyankar, Uriel M  
; APPLICANT: Patturajan, Meera  
; APPLICANT: Shimkets, Richard A  
; APPLICANT: Pena, Carol EA  
; APPLICANT: Tchernev, Velizar T  
; APPLICANT: Zerhusen, Bryan D  
; APPLICANT: Millet, Isabelle  
; APPLICANT: Miller, Charles E  
; APPLICANT: Lepley, Denise M  
; APPLICANT: Smithson, Glenda  
; APPLICANT: Baumgartner, Jason C  
; APPLICANT: Herrman, John L  
; APPLICANT: Peyman, John A  
; APPLICANT: Gorman, Linda  
; APPLICANT: Mezes, Peter D  
; APPLICANT: Kekuda, Ramesh  
; APPLICANT: Taupier Jr, Raymond J  
; APPLICANT: Gerlach, Valerie  
; APPLICANT: Grosse, William M  
; APPLICANT: Liu, Xiaohong  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Rothenberg, Mark  
; APPLICANT: Stone, David J  
; APPLICANT: Burgess, Catherine E  
; TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF  
; TITLE OF INVENTION: USING THE SAME  
; FILE REFERENCE: 21402-245  
; CURRENT APPLICATION NUMBER: US/10/051,874  
; CURRENT FILING DATE: 2002-09-25  
; PRIOR APPLICATION NUMBER: 60/268,595  
; PRIOR FILING DATE: 2001-02-14  
; PRIOR APPLICATION NUMBER: 60/325,306  
; PRIOR FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: 60/262,587  
; PRIOR FILING DATE: 2001-01-18  
; PRIOR APPLICATION NUMBER: 60/272,409  
; PRIOR FILING DATE: 2001-02-28  
; PRIOR APPLICATION NUMBER: 60/262,454  
; PRIOR FILING DATE: 2001-01-18  
; PRIOR APPLICATION NUMBER: 60/276,777  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/291,672  
; PRIOR FILING DATE: 2001-05-17  
; PRIOR APPLICATION NUMBER: 60/330,336  
; PRIOR FILING DATE: 2001-10-18  
; PRIOR APPLICATION NUMBER: 60/265,530  
; PRIOR FILING DATE: 2001-01-31  
; PRIOR APPLICATION NUMBER: 60/261,376  
; PRIOR FILING DATE: 2001-01-16  
; NUMBER OF SEQ ID NOS: 269  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 124  
; LENGTH: 404  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-051-874-124

Query Match 31.2%; Score 694; DB 15; Length 404;  
Best Local Similarity 38.8%; Pred. No. 1.8e-60;  
Matches 142; Conservative 63; Mismatches 119; Indels 42; Gaps 7;

QY 10 WGLL-DYKTEK-----WALLAKGYQERDLBPQFSIITK 42

Db 22 WSALWDYETPKVIVVNRRLGLYRAVQLLLLYFWYVFIWKSYQSESGPSSIITK 81  
Qy 43 LKGVSVTQIKELGNRLWDVADFKVPOGNGVFLVNFVTPAQVQGRCPHPSVPLANC 102  
Db 82 VKGIITSE-----HKVMDVEYVKKPEGGSVFSIITRVEATHSQTQCTCPESIRVHNATC 136  
Qy 103 WDEDCPEGEGGTHSHGVKTGCV-VFNGTHRTCEIWSWCPVESGVVPSRPLLAQAQNP 161  
Db 137 LSDADCVAGELDMLGNLRTGRCPVYQPSKTCVFGWCPVEDGASVSQFLGTWAPNFT 196  
Qy 162 LFIKNTVTFKFNFSKSNALETWDPYFKHCRYEPQSPYCPVFRIGDLVAKAGTFDEL 221  
Db 197 ILIKNSIHYPKFHSKGNADRTD-GYLKRCITFHEASDLYCPIFKLGFIVERKAGESFTEL 255  
Qy 222 ALLGSGVGRVWDCDLDTGDSGCGWPHYSFOLQE-----KSYNFRTHATHWHPQVGEA 274  
Db 256 AHKGGVIGVVIINWDCDLDPASECNPKYFRRLDPKHVPASSGYNFRFA-KYYKINGTTT 314  
Qy 275 RTLLKLYGIRFDILVTGQAGKFLIPTAVTLGTGAWLGVVTFPCDLLLLLYVDREAHFYW 334  
Db 315 RLIIKAYGIRIDVIVHGQAGKFSLIPTIINLATALTSVGVSGSLCDWILLTFMKNKNVYS 374  
Qy 335 RTKYEE 340  
Db 375 HKKFDK 380

## RESULT 14

US-10-051-874-120  
; Sequence 120, Application US/10051874  
; Publication No. US20040005557A1  
; GENERAL INFORMATION:  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Alsobrook II, John P  
; APPLICANT: Colman, Steven D  
; APPLICANT: Spytek, Kimberly A  
; APPLICANT: Boldog, Ferenc  
; APPLICANT: Vernet, Corine AM  
; APPLICANT: Li, Li  
; APPLICANT: Shenoy, Suresh G  
; APPLICANT: Casman, Stacie J  
; APPLICANT: Guo, Xiaojia Sasha  
; APPLICANT: Edinger, Shlomit R  
; APPLICANT: MacDougall, John R  
; APPLICANT: Malyankar, Uriel M  
; APPLICANT: Fatturajan, Meera  
; APPLICANT: Shimkets, Richard A  
; APPLICANT: Pena, Carol EA  
; APPLICANT: Tchernev, Velizar T  
; APPLICANT: Zerhusen, Bryan D  
; APPLICANT: Millet, Isabelle  
; APPLICANT: Miller, Charles E  
; APPLICANT: Lepley, Denise M  
; APPLICANT: Smithson, Glennda  
; APPLICANT: Baumgartner, Jason C  
; APPLICANT: Herrman, John L  
; APPLICANT: Peyman, John A  
; APPLICANT: Gorman, Linda  
; APPLICANT: Mezes, Peter D  
; APPLICANT: Kekuda, Ramesh  
; APPLICANT: Taupier Jr, Raymond J  
; APPLICANT: Gerlach, Valerie  
; APPLICANT: Grosse, William M  
; APPLICANT: Liu, Xiaohong  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Rothenberg, Mark  
; APPLICANT: Stone, David J  
; APPLICANT: Burgess, Catherine E  
; TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF  
; FILE REFERENCE: 21402-245  
; CURRENT APPLICATION NUMBER: US/10/051,874

; CURRENT FILING DATE: 2002-09-25  
; PRIOR APPLICATION NUMBER: 60/268,595  
; PRIOR FILING DATE: 2001-02-14  
; PRIOR APPLICATION NUMBER: 60/325,306  
; PRIOR FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: 60/262,587  
; PRIOR FILING DATE: 2001-01-18  
; PRIOR APPLICATION NUMBER: 60/272,409  
; PRIOR FILING DATE: 2001-02-28  
; PRIOR APPLICATION NUMBER: 60/262,454  
; PRIOR FILING DATE: 2001-01-18  
; PRIOR APPLICATION NUMBER: 60/276,777  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/291,672  
; PRIOR FILING DATE: 2001-05-17  
; PRIOR APPLICATION NUMBER: 60/330,336  
; PRIOR FILING DATE: 2001-10-18  
; PRIOR APPLICATION NUMBER: 60/265,530  
; PRIOR FILING DATE: 2001-01-31  
; PRIOR APPLICATION NUMBER: 60/261,376  
; PRIOR FILING DATE: 2001-01-16  
; NUMBER OF SEQ ID NOS: 269  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 120  
; LENGTH: 497  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-051-874-120

Query Match 31.1%; Score 693; DB 15; Length 497;  
Best Local Similarity 35.0%; Pred. No. 3.1e-60;  
Matches 159; Conservative 66; Mismatches 153; Indels 76; Gaps 10;

Qy 10 WGLL-DYKTEK-----WALLAKGYQDRDLBPQSIITK 42  
Db 22 WSALWDYETPKVIVVNRRLGLYRAVQLLLLYFWYVFIWKSYQSESGPSSIITK 81  
Qy 43 LKGVSVTQIKELGNRLWDVADFKVPOGNGVFLVNFVTPAQVQGRCPHPSVPLANC 102  
Db 82 VKGIITSE-----HKVMDVEYVKKPEGGSVFSIITRVEATHSQTQCTCPESIRVHNATC 136  
Qy 103 WDEDCPEGEGGTHSHGVKTGCV-VFNGTHRTCEIWSWCPVESGVVPSRPLLAQAQNP 161  
Db 137 LSDADCVAGELDMLGNLRTGRCPVYQPSKTCVFGWCPVEDGASVSQFLGTWAPNFT 196  
Qy 162 LFIKNTVTFKFNFSKSNALETWDPYFKHCRYEPQSPYCPVFRIGDLVAKAGTFDEL 221  
Db 197 ILIKNSIHYPKFHSKGNADRTD-GYLKRCITFHEASDLYCPIFKLGFIVERKAGESFTEL 255  
Qy 222 ALLGSGVGRVWDCDLDTGDSGCGWPHYSFOLQE-----KSYNFRTHATHWHPQVGEA 274  
Db 256 AHKGGVIGVVIINWDCDLDPASECNPKYFRRLDPKHVPASSGYNFRFA-KYYKINGTTT 314  
Qy 275 RTLLKLYGIRFDILVTGQAGKFLIPTAVTLGTGAAMLGVV----- 315  
Db 315 RLIIKAYGIRIDVIVHGQAGKFSLIPTIINLATALTSVGVVNRPLWPGSGCGSTRPLHT 374  
Qy 316 -----TFPCDLLLLLYVDREAHFYWTKYEAKAPATANSVWRELALASQARLAECIR 368  
Db 375 GLCWPGSFLCDWILLTFMKNKNVYSHKKFKDKVCTPSPHSGSWPVTLARVLGOAPPEPGH 434  
Qy 369 RS--SAPAPTATAAGSQ-----TOTPGWCPSS 394  
Db 435 RSDQHPSPSGQSGQAGACGAPFPPLRCPIS 468

## RESULT 15

US-10-455-552-3  
; Sequence 3, Application US/10455552  
; Publication No. US20040018533A1  
; GENERAL INFORMATION:  
; APPLICANT: Adam, Gail Isabel  
; APPLICANT: Langdon, Maria



```
; APPLICANT: Roth, Richard
; APPLICANT: Denissenko, Mikhail
; APPLICANT: Smylie, Kevin
; TITLE OF INVENTION: DIAGNOSING PREDISPOSITION TO FAT
; TITLE OF INVENTION: DEPOSITION AND THERAPEUTIC METHODS FOR REDUCING FAT
; TITLE OF INVENTION: DEPOSITION AND TREATMENT OF ASSOCIATED CONDITIONS
; FILE REFERENCE: 52459-20030.00
; CURRENT APPLICATION NUMBER: US/10/455,552
; PRIOR FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: US 60/386,012
; PRIOR FILING DATE: 2002-06-04
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 287
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-455-552-3

Query Match      30.3%; Score 673.5; DB 15; Length 287;
Best Local Similarity 46.2%; Pred. No. 1.3e-58;
Matches 126; Conservative 47; Mismatches 89; Indels 11; Gaps 3;

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Db 60 VAAWCPEDDTHVPQAPFLKAAENFTLLVKNNIWYKFNFSKRNILPNITTTLYKSCIYD 119
QY 196 POFSPYCPVFRIGDLVAKAGTFEDLALGSGVGRVHWDCDLDTGDSGCWPHYSFLOE 255
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QY 307 TGAAMLGVVTFCCDLLLVVDREAHFYWRKYE 339
Db 240 SGLALGMATVLCDIIVLYCMKKRLYREKKYK 272
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Search completed: March 19, 2005, 00:11:48  
Job time : 143 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 21, 2005, 14:19:42 ; Search time 598.681 Seconds  
(without alignments)

9953.840 Million cell updates/sec

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Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 5544816 seqs, 2976611598 residues

Total number of hits satisfying chosen parameters: 11089632

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.\*

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- 19: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq.\*
- 20: /cgn2\_6/ptodata/1/pubpna/US11\_NEW\_PUB.seq.\*
- 21: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq.\*
- 22: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1001	100.0	16449	10	US-09-820-095-3
2	184	18.4	576	9	Sequence 9249, Ap
3	149.4	14.9	822900	17	US-10-292-798-1393
4	141.4	14.1	33317	13	US-10-087-192-1714
5	141.4	14.1	221000	17	US-10-174-014-12
6	141.4	14.1	233380	13	US-10-087-192-652
7	140.8	14.1	43436	18	US-10-741-601-5638
8	140.2	14.0	195917	18	US-10-723-860-3426
9	139	13.9	256493	13	US-10-087-192-1000
10	138.4	13.8	16556	17	US-10-132-720-3
11	138	13.8	634	13	US-10-027-632-125214

12	138	13.8	634	17	US-10-027-632-125214	Sequence 125214,
13	137.6	13.7	19564	18	US-10-741-601-5773	Sequence 5773, Ap
14	137.6	13.7	30987	18	US-10-741-601-5692	Sequence 5692, Ap
15	137.6	13.7	66686	19	US-10-741-601-5710	Sequence 5710, Ap
16	137.6	13.7	66686	18	US-10-741-600-17813	Sequence 17813, A
17	137.6	13.7	105314	18	US-10-741-601-5609	Sequence 5609, Ap
18	137.6	13.7	105314	19	US-10-741-600-17554	Sequence 17554, A
19	137.6	13.7	95914	18	US-10-322-281-584	Sequence 584, App
20	136.6	13.6	18861	11	US-09-984-429-513	Sequence 513, App
21	136.6	13.6	227968	18	US-10-723-860-1357	Sequence 1357, App
22	136.2	13.6	135800	13	US-10-087-192-898	Sequence 898, App
23	136	13.6	819	13	US-10-027-632-166625	Sequence 166625,
24	136	13.6	819	17	US-10-027-632-166625	Sequence 166625,
25	135.8	13.6	32621	15	US-10-087-192-1912	Sequence 1912, Ap
26	135.8	13.6	104000	13	US-10-012-984-14	Sequence 14, Appl
27	135.8	13.6	104000	18	US-10-673-523-14	Sequence 14, Appl
28	135.4	13.5	96595	11	US-09-997-722-262	Sequence 262, App
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34	135.2	13.5	874	17	US-10-027-632-169468	Sequence 169468,
35	135.2	13.5	874	17	US-10-027-632-169469	Sequence 169469,
36	135.2	13.5	874	17	US-10-027-632-169468	Sequence 169468,
37	135.2	13.5	29163	10	US-09-764-891-7809	Sequence 7809, App
38	134.8	13.5	107745	18	US-10-322-281-268	Sequence 268, App
39	134.4	13.4	1254	13	US-10-027-632-259213	Sequence 259213,
40	134.4	13.4	1254	17	US-10-027-632-259213	Sequence 259213,
41	134.2	13.4	908	13	US-10-027-632-119959	Sequence 119959,
42	134.2	13.4	908	13	US-10-027-632-119960	Sequence 119960,
43	134.2	13.4	908	13	US-10-027-632-119961	Sequence 119961,
44	134.2	13.4	908	17	US-10-027-632-119959	Sequence 119959,
45	134.2	13.4	908	17	US-10-027-632-119960	Sequence 119960,

ALIGNMENTS

RESULT 1

US-09-820-095-3  
; Sequence 3, Application US/09820095  
; Publication NO. US2003023368A1  
; GENERAL INFORMATION:  
; APPLICANT: WEI, Ming-Hui et al  
; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED  
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR  
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF  
; FILE REFERENCE: CL001202  
; CURRENT APPLICATION NUMBER: US/09/820,095  
; CURRENT FILING DATE: 2001-03-29  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 16449  
; TYPE: DNA  
; ORGANISM: Human  
US-09-820-095-3

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QY	61	TCAGCCAGGCACAGTGGTGTGTCTGTAGTCCAGCTACTGGGATACCTAGAGGTGAGAG	120				
Db	9060	TCAGCCAGGCACAGTGGTGTGTGTAGTCCAGCTACTGGGATACCTAGAGGTGAGAG	9119				
QY	121	GAATGCTTAAGCCCGGAGGGGAGGCTGTAGTGAGCCATGATACCACTGCCTACATA	180				

Db 9120 GATTGCTTAAGCCGGGAGGGCGAGGCTGTAGTGAGCCATGATCATACCACTGCATAGA 9179  
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Db 9180 GCCTGGACACAGAGTGAGACCGAATCACTAAAAATAAATTTTTCGAAAAAGGAGAAAG 9239  
QY 241 GGGTCTCCCTTTGCTTTTGAATAACAGTACTGTACCTTTCATCTGGCCAGGCAATTCCTCC 300  
Db 9240 GGGTCTCCCTTTGCTTTTGAATAACAGTACTGTACCTTTCATCTGGCCAGGCAATTCCTCC 9299  
QY 301 GCTCCCTCTCTGACACACCTCTTTTATTTGACACCTTCAGCTTTCTGTGTGGCCCCAC 360  
Db 9300 GCTCCCTCTCTGACACACCTCTTTTATTTGACACCTTCAGCTTTCTGTGTGGCCCCAC 9359  
QY 361 ACTCAGGTACTCTGGCGGGGGTGTGAGGTTGTTAAGTGGGGAAGGGGCGCTGTCC 420  
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QY 481 CATTGGTGACTGCTCTCTCTCCACTCAGACCCGTCGTCCTCCACTGGCTAACTGCTG 540  
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QY 721 AGGCTCTCCCGAGGCTGACAGATTTGAAGGTCTGAGTTCATCTTTTCTTCTAGTG 780  
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RESULT 2

US-09-864-761-9249/c  
; Sequence 9249, Application US/0986461  
; Patent No. US20020048763A1  
; GENERAL INFORMATION:  
; APPLICANT: Penn, Sharron G.  
; APPLICANT: Rank, David R.  
; APPLICANT: Hanzel, David K.  
; APPLICANT: Chen, Wensheng  
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
; CURRENT APPLICATION NUMBER: US/09/864,761  
; CURRENT FILING DATE: 2001-05-23

; PRIOR APPLICATION NUMBER: US 60/180,312  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 09/632,366  
; PRIOR FILING DATE: 2000-08-03  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
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; PRIOR APPLICATION NUMBER: PCT/US01/00669  
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; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 09/608,408  
; PRIOR FILING DATE: 2000-06-30  
; PRIOR APPLICATION NUMBER: US 09/774,203  
; PRIOR FILING DATE: 2001-01-29  
; NUMBER OF SEQ ID NOS: 49117  
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1  
; SEQ ID NO 9249  
; LENGTH: 576  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
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; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.9  
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.4  
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.6  
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.6  
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.5  
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 4.1  
; US-09-864-761-9249

Query Match 18.4%; Score 184; DB 9; Length 576;  
Best Local Similarity 100.0%; Pred. No. 1.1e-46;  
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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QY 878 GTCCCCACAATCCCCCTACCCCACTGGCGCAGAGGCCGCCAGGCTGGCAGAGCTGTCAAC 937  
DB 516 GTCCCCACAATCCCCCTACCCCACTGGCGCAGAGGCCGCCAGGCTGGCAGAGCTGTCAAC 457  
QY 938 TCCCTTCCACTGGAGAGGCCCTGTGCGCCAGGCCAGGACTTCACACTGTTTCATCA 997  
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RESULT 3
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; Publication No. US20030235833A1
; GENERAL INFORMATION:
; APPLICANT: SUWA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABEURATANI, HIROYUKI
; TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS
; FILE REFERENCE: 084335/166
; CURRENT APPLICATION NUMBER: US/10/292,798
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: 10/017,161
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: JP 2001-246789
; PRIOR FILING DATE: 2001-06-18
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; LOCATION: (417384)..(417483)
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39 // NAME/KEY: modified_base
40 // LOCATION: (738576)..(738675)
41 // OTHER INFORMATION: a, t, c, g, unknown or other
42 // FEATURE:
43 // NAME/KEY: modified_base
44 // LOCATION: (740924)..(741023)
45 // OTHER INFORMATION: a, t, c, g, unknown or other
46 // FEATURE:
47 // NAME/KEY: modified_base
48 // LOCATION: (744360)..(744459)
49 // OTHER INFORMATION: a, t, c, g, unknown or other
50 // FEATURE:
51 // NAME/KEY: modified_base
52 // LOCATION: (748430)..(748529)
53 // OTHER INFORMATION: a, t, c, g, unknown or other
54 // FEATURE:
55 // NAME/KEY: modified_base
56 // LOCATION: (754323)..(754422)

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LOCATION: 77968  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77969  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77970  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77971  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77972  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77973  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
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FEATURE:  
NAME/KEY: unsure  
LOCATION: 77975  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77976  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77977  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77978  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
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OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77980  
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FEATURE:  
NAME/KEY: unsure  
LOCATION: 77981  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77982  
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FEATURE:  
NAME/KEY: unsure  
LOCATION: 77983  
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FEATURE:  
NAME/KEY: unsure  
LOCATION: 77984  
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FEATURE:  
NAME/KEY: unsure  
LOCATION: 77985  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77986

OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77987  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77988  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77989  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77990  
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NAME/KEY: unsure  
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OTHER INFORMATION: unknown  
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NAME/KEY: unsure  
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OTHER INFORMATION: unknown  
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NAME/KEY: unsure  
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OTHER INFORMATION: unknown

FEATURE:  
NAME/KEY: unsure  
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FEATURE:  
NAME/KEY: unsure  
LOCATION: 78006  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
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NAME/KEY: unsure  
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NAME/KEY: unsure  
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OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 78010  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 78011  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 78012  
OTHER INFORMATION: unknown  
FEATURE:

Query Match 14.1%; Score 141.4; DB 17; Length 221000;

Best Local Similarity 73.0%; Pred. No. 2.6e-32;  
Matches 195; Conservative 0; Mismatches 71; Indels 1; Gaps 1;

QY 2 AAAACCCAGCTGCTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTTAAAAAT 61  
DB 139275 AGACCCAGCTGGGCAACAGCAAGACTCCATCTCTACAAAAAATAATTTAAAAAT 139216  
QY 62 CAGCCAGGCACAGTGTGTGTCTGTAGTCCAGCTACTTGGGAATACCTGAGGTGAGAG 121  
DB 139215 TAGCCAGGCGTGTGCATATGCTGATGCTCCAGCTACTTGGGAAGCTAAGGTAGGGG 139156  
QY 122 ATTGCTTAAGCCGGAGGCGAGGCTGTAGTGAGCCATGATCATACCACTGCCTAGAG 181  
DB 139155 ATCTCTTGAAGCTGGGAGGTCGAGGCTGCAGTGAGCCATGATATACCACTGCCTCCAG 139096  
QY 182 CTGGACACAGAGTGAACCGGATCACTAAAAATAATTTTGAAGGAGGAAAGG 241  
DB 139095 CTGGGTGACAGAACAGACCCCTGTCTC-AAAAAATAATTTTGAAGGAGGAAAGG 139037  
QY 242 GGTCTCCCTTTGCTTTTGAATACAGT 268  
DB 139036 GGTGTAACTGGGCTATCACTTAATT 139010

RESULT 6

US-10-087-192-652/c  
Sequence 652, Application US/10087192  
Publication No. US20020182586A1  
GENERAL INFORMATION:  
APPLICANT: Morris, David W.  
TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR  
FILE REFERENCE: 529452000122  
CURRENT APPLICATION NUMBER: US/10/087,192  
CURRENT FILING DATE: 2002-03-01  
PRIOR APPLICATION NUMBER: US 09/747,377  
PRIOR FILING DATE: 2000-12-22

PRIOR APPLICATION NUMBER: US 09/798,586  
PRIOR FILING DATE: 2001-03-02  
NUMBER OF SEQ ID NOS: 2059  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 652  
LENGTH: 233380  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)...(233380)  
OTHER INFORMATION: n = A,T,C or G  
US-10-087-192-652

Query Match 14.1%; Score 141.4; DB 13; Length 233380;

Best Local Similarity 73.0%; Pred. No. 2.6e-32;  
Matches 195; Conservative 0; Mismatches 71; Indels 1; Gaps 1;

QY 2 AAAACCCAGCTGCTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTTAAAAAT 61  
DB 146586 AGACCCAGCTGGGCAACAGCAAGACTCCATCTCTACAAAAAATAATTTAAAAAT 146527  
QY 62 CAGCCAGGCACAGTGTGTGTCTGTAGTCCAGCTACTTGGGAATACCTGAGGTGAGAG 121  
DB 146526 TAGCCAGGCGTGTGCATATGCTGATGCTCCAGCTACTTGGGAAGCTAAGGTAGGGG 146467  
QY 122 ATTGCTTAAGCCGGAGGCGAGGCTGTAGTGAGCCATGATCATACCACTGCCTAGAG 181  
DB 146466 ATCTCTTGAAGCTGGGAGGTCGAGGCTGCAGTGAGCCATGATATACCACTGCCTCCAG 146407  
QY 182 CTGGACACAGAGTGAACCGGATCACTAAAAATAATTTTGAAGGAGGAAAGG 241  
DB 146406 CTGGGTGACAGAACAGACCCCTGTCTC-AAAAAATAATTTTGAAGGAGGAAAGG 146348  
QY 242 GGTCTCCCTTTGCTTTTGAATACAGT 268  
DB 146347 GGTGTAACTGGGCTATCACTTAATT 146321

RESULT 7

US-10-741-601-5638  
Sequence 5638, Application US/10741601  
Publication No. US20040166519A1  
GENERAL INFORMATION:  
APPLICANT: CARGILL, Michelle et al.  
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH  
FILE REFERENCE: CL001500  
CURRENT APPLICATION NUMBER: US/10/741,601  
NUMBER OF SEQ ID NOS: 26415  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 5638  
LENGTH: 43436  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-741-601-5638

Query Match 14.1%; Score 140.8; DB 18; Length 43436;

Best Local Similarity 74.2%; Pred. No. 2e-32;  
Matches 178; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 2 AAAACCCAGCTGCTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTTAAAAAT 61  
DB 4159 AAGACCAACCTGGGCAACATAGTGAGACACTGTCTCTACAAAAAATAATTTAAAAAT 4218  
QY 62 CAGCCAGGCACAGTGTGTGTCTGTAGTCCAGCTACTTGGGAATACCTGAGGTGAGAG 121  
DB 4219 TAGCCAGGCTGTGTATGCTGTGTATCTGTATCTCTAGTACTTGGGAAGCTGAGGTAGGAG 4278  
QY 122 ATTGCTTAAGCCGGAGGCGAGGCTGTAGTGAGCCATGATCATACCACTGCCTAGAG 181  
DB 4279 ATTGCTTGAAGCTGGGAGGTAAGGCGGAGTGTGTGTATCATGCCACTGCCTTCCAG 4338



QY 182 CTGGACACAGAGTGGAGCCGAATCACTAAATAATTAATTTTGTAAAAAGAGGAAAGG 241  
|||||  
Db 4339 CTTGAGTACAGAGTGGAGCCATATCTCCAGAAAGAGAAAAAGAAAGAAAG 4398  
|||||

## RESULT 8

US-10-723-860-3426/c  
; Sequence 3426, Application US/10723860  
; Publication No. US20040253606A1  
; GENERAL INFORMATION:  
; APPLICANT: Aziz, Natasha  
; APPLICANT: Ginsburg, Wendy M.  
; APPLICANT: Zlotnik, Albert  
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &  
; TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators  
; FILE REFERENCE: 05882.0193.NPUS01  
; CURRENT APPLICATION NUMBER: US/10/723,860  
; CURRENT FILING DATE: 2003-11-26  
; PRIOR APPLICATION NUMBER: 60/429,739  
; PRIOR FILING DATE: 2002-11-26  
; NUMBER OF SEQ ID NOS: 8393  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 3426  
; LENGTH: 195917  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-723-860-3426

Query Match 14.0%; Score 140.2; DB 18; Length 195917;  
Best Local Similarity 77.9%; Pred. No. 5.8e-32;  
Matches 169; Conservative 0; Mismatches 48; Indels 0; Gaps 0;  
  
QY 3 AAACAGAGCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTTAAAAAATC 62  
|||||  
Db 77452 AGACAGCTGGGCATATATGTGAGACCTCACTCTACAAAAAATAATTTAAAAAAT 77393  
|||||  
  
QY 63 AGCCAGGCACAGTGGTGTGTCTGTAGTCCAGCTACTGGGAATCTAGAGGTGAGAGGA 122  
|||||  
Db 77392 AGCCAGTATGGTGGCAAGCACCTGCAGTCCAGCTACTTGAGAGGCTGAGGTGAGAGGA 77333  
|||||  
  
QY 123 TTGCTTAAGCCCGGAGGGGAGGCTGTGTAGTGCAGCATGATCATACCTGCACCTAGAGC 182  
|||||  
Db 77332 TTGTTTGGCCAGGAGGTGTAGGCTGAAGTGGAGCCATGATCACACCTGCACCTCAGC 77273  
|||||  
  
QY 183 CTGGACACAGAGTGGAGCCGAATCACTAAATAATAA 219  
|||||  
Db 77272 CTGGACACAGAGCCATCTATCTTAGAAAAAAA 77236  
|||||

## RESULT 9

US-10-087-192-1000/c  
; Sequence 1000, Application US/10087192  
; Publication No. US20020182586A1  
; GENERAL INFORMATION:  
; APPLICANT: Morris, David W.  
; APPLICANT: Engelhard, Eric K.  
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR  
; TITLE OF INVENTION: CANCER  
; FILE REFERENCE: 529452000122  
; CURRENT APPLICATION NUMBER: US/10/087,192  
; CURRENT FILING DATE: 2002-03-01  
; PRIOR APPLICATION NUMBER: US 09/747,377  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: US 09/798,586  
; PRIOR FILING DATE: 2001-03-02  
; NUMBER OF SEQ ID NOS: 2059  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1000  
; LENGTH: 256493  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:

; NAME/KEY: misc\_feature  
; LOCATION: (1)...(256493)  
; OTHER INFORMATION: n = A,T,C or G  
US-10-087-192-1000  
  
Query Match 13.9%; Score 139; DB 13; Length 256493;  
Best Local Similarity 71.0%; Pred. No. 1.6e-31;  
Matches 198; Conservative 0; Mismatches 80; Indels 1; Gaps 1;  
  
QY 2 AAAACAGAGCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTTAAAAAAT 61  
|||||  
Db 49710 AGACAGCTGGGCACATGCGAGACCCCTCTACAAAAAATAA-ACAAAAAAT 49652  
|||||  
  
QY 62 CAGCCAGGCACAGTGGTGTGTGTAGTCCAGCTACTGGGAATCTAGAGGTGAGAGG 121  
|||||  
Db 49651 TAGCCAGGTGTGGGGGTGCTTCCCTGTAGTCCAGCTACTCAGGAGGCTGAGGTAGAGG 49592  
|||||  
  
QY 122 ATGCTTAAGCCCGGAGGGCGAGGCTGTGTAGTGCAGCATGATCATACCTGCACCTAG 181  
|||||  
Db 49591 ATGCTTTAGCCCAAGAGGTTGGAGGGTGCAGTGCAGTGCACCTGCACCTTAG 49532  
|||||  
  
QY 182 CTGGACACAGAGTGGAGCCGAATCACTAAATAATAATTTTAAAAAAGAGGAAAGG 241  
|||||  
Db 49531 CTGGATGACAGATGAGACCTCTCAAAAAATAAAGAAAAAAGAAAAACAG 49472  
|||||  
  
QY 242 GGTCTCCCTTTGTCTTTGAAATACAGTACTGTACCTTCA 280  
|||||  
Db 49471 TGGCAGCAAGAGGACTTGAATTTCTGAATTTCTGCTCTCCA 49433  
|||||

## RESULT 10

US-10-132-720-3/c  
; Sequence 3, Application US/10132720  
; Publication No. US20030219747A1  
; GENERAL INFORMATION:  
; APPLICANT: HU, Song et al.  
; TITLE OF INVENTION: ISOLATED HUMAN SECRETED PROTEINS,  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN SECRETED PROTEINS, AND  
; TITLE OF INVENTION: USES THEREOF  
; FILE REFERENCE: CL001230  
; CURRENT APPLICATION NUMBER: US/10/132,720  
; CURRENT FILING DATE: 2002-04-26  
; PRIOR APPLICATION NUMBER: 60/286,382  
; PRIOR FILING DATE: 2001-04-26  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 16556  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(16556)  
; OTHER INFORMATION: n = A,T,C or G  
US-10-132-720-3

Query Match 13.8%; Score 138.4; DB 17; Length 16556;  
Best Local Similarity 73.0%; Pred. No. 7.7e-32;  
Matches 178; Conservative 0; Mismatches 66; Indels 0; Gaps 0;  
  
QY 3 AAACAGAGCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTTAAAAAATC 62  
|||||  
Db 5788 AGACAGCTGGGCACATAGCAAGACCCCTCTCTGCAATAATAAAGACACAAAAAT 5729  
|||||  
  
QY 63 AGCCAGGCACAGTGGTGTGTGTAGTCCAGCTACTGGGAATCTAGAGGTGAGAGGA 122  
|||||  
Db 5728 AGCTGGGCATGGTGGCGTGCACCTGTAGTCCAGCTACTTGGAGGCTGAGGCAAGAGGA 5669  
|||||  
  
QY 123 TTGCTTTAAGCCCGGAGGGCGAGGCTGTGTAGTGCAGCATGATCATACCTGCACCTAGAGC 182  
|||||  
Db 5668 TCACCTTGAGCCCTGGGAGGTCAGAGCTGAGTGCAGCGCTGATTTGTCACCTGCACCTCAGC 5609  
|||||  
  
QY 183 CTGGACACAGAGTGGAGCCGAATCACTAAATAATAATTTTAAAAAAGAGGAAAGG 242  
|||||



Qy 123 TTGCTTAAGCCCGGAGGGCGAGGCTGTAGTAGGCGCATGATCATACCACTGCACTAGAGC 182  
Db 19232 TCACTTGAGCCAGGTGGTCCAGGCTGCAGTGAGCCATGATTATGCCACTACACTCCAGC 19291  
Qy 183 CTGGACAACAGAGTGAGACCGATCACTAAATAA 218  
Db 19292 CTGGCGACAGAGTGAGACTCTGTCTCAAAAACAA 19327

## RESULT 14

US-10-741-601-5692

; Sequence 5692, Application US/10741601

; Publication No. US20040166519A1

; GENERAL INFORMATION:

; APPLICANT: CARGILL, Michele et al.

; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH

; FILE REFERENCE: STENOSIS, METHODS OF DETECTION AND USES THEREOF

; CURRENT APPLICATION NUMBER: US/10/741,601

; NUMBER OF SEQ ID NOS: 26415

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 5692

; LENGTH: 30987

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-741-601-5692

Query Match

Best Local Similarity 13.7%; Score 137.6; DB 18; Length 30987;

Matches 167; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

Qy 3 ARACAGGCTGGTCAACATAGCAAGACTCCATCTACAAAAAATAATTAATAATC 62

Db 10393 AGACGAGCTGGGCAACATAGAGAGCCCATCTACAAAAAATAATTAATAAT 10452

Qy 63 AGCCAGGCAAGTGGTGTGTCTGTAGTCCAGCTACTGGGAATATCTAGGCTGAGAGGA 122

Db 10453 AGCTGGGTATGGTGGTGATGCTCTGTGGTCCAGCTACTCAGGAGGCAAGGTGGGAGGA 10512

Qy 123 TTGCTTAAGCCCGGAGGGCGAGGCTGTAGTAGGCGCATGATCATACCACTGCACTAGAGC 182

Db 10513 TCACTTGAGCCAGGTGGTCCAGGCTGCAGTGAGCCATGATTATGCCACTACACTCCAGC 10572

Qy 183 CTGGACAACAGAGTGAGACCGATCACTAAATAA 218

Db 10573 CTGGCGACAGAGTGAGACTCTGTCTCAAAAACAA 10608

## RESULT 15

US-10-741-601-5710

; Sequence 5710, Application US/10741601

; Publication No. US20040166519A1

; GENERAL INFORMATION:

; APPLICANT: CARGILL, Michele et al.

; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH

; FILE REFERENCE: STENOSIS, METHODS OF DETECTION AND USES THEREOF

; CURRENT APPLICATION NUMBER: US/10/741,601

; NUMBER OF SEQ ID NOS: 26415

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 5710

; LENGTH: 66686

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-741-601-5710

Query Match

Best Local Similarity 13.7%; Score 137.6; DB 18; Length 66686;

Matches 176; Conservative 0; Mismatches 64; Indels 0; Gaps 0;

Qy 2 AAAACAGGCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTAATAAT 61  
Db 15322 AAGACCAAGTCTGGGCAACATAGTGAGGGCTCGCCTCTACTAAAAATTAATAAT 15381

Qy 62 CAGCCAGGCAACAGTGTGTGTCTGTAGTCCAGCTACTGGGAATACTGAGGTGAGAGG 121  
Db 15382 TAGCCAGGCTTGGTGGTGCATGACCAATGTTCCAGCTACTTGGTAGGCTGAGATGGGAGG 15441

Qy 122 ATTGCTTAAGCCCGGAGGGCGAGGCTGTAGTGAGCCATGATCATACCACTGCACCTAGAG 181  
Db 15442 ATTGCTTGAGCCTGGGAAGTTGAGGGCTGCAGTGAGCTGAGATCATGCCACTGCACCTCCAG 15501

Qy 182 CCTGGACAACAGAGTGAGACCGGAATCACTAAAAATAATTTTTTGAAGGAGGAAAGG 241  
Db 15502 CCTGGACAACAGAGTAAGACACTGTCTCAAAACAAACAAAAAGGAAAAAGGAAGAAAG 15561

Search completed: March 21, 2005, 16:34:25

Job time : 602.681 secs



Result No.	Score	Query		DB	ID	Description
		Match	Length			
C 1	141	14.1	52523	4	US-09-949-016-12433	Sequence 12433, A
C 2	141	14.1	52530	4	US-09-949-016-13948	Sequence 13948, A
C 3	140.6	14.0	601	4	US-09-949-016-76097	Sequence 76097, A
C 4	139.6	13.9	601	4	US-09-949-016-126119	Sequence 126119, A
C 5	139.6	13.9	601	4	US-09-949-016-126120	Sequence 126120, A
C 6	139.6	13.9	35007	4	US-09-949-016-15330	Sequence 15330, A
C 7	139	13.8	482	4	US-09-513-999C-28419	Sequence 28419, A
C 8	138.6	13.8	135171	4	US-09-949-016-15617	Sequence 15617, A
C 9	138.4	13.8	304533	4	US-09-949-016-15371	Sequence 15371, A
C 10	138.4	13.8	304533	4	US-09-949-016-15372	Sequence 15372, A
C 11	137.8	13.8	601	4	US-09-949-016-58699	Sequence 58699, A
C 12	137.8	13.8	37292	4	US-09-949-016-15382	Sequence 15382, A
C 13	137.8	13.8	172677	4	US-09-949-016-13444	Sequence 13444, A
C 14	136.8	13.7	235452	4	US-09-949-016-13675	Sequence 13675, A
C 15	136.6	13.6	601	4	US-09-949-016-137367	Sequence 127367, A
C 16	136.2	13.6	119801	4	US-09-949-016-13453	Sequence 13453, A
C 17	135.6	13.5	94873	4	US-09-949-016-12777	Sequence 14277, A
C 18	135.4	13.5	69924	4	US-09-949-016-15367	Sequence 15367, A
C 19	135.4	13.5	346112	4	US-09-949-016-13165	Sequence 13165, A
C 20	134.8	13.5	50109	4	US-09-949-016-14112	Sequence 14112, A
C 21	134.8	13.5	177251	4	US-09-949-016-15841	Sequence 15841, A
C 22	134.6	13.4	27630	4	US-09-949-016-12722	Sequence 12722, A
C 23	134.6	13.4	89689	4	US-09-949-016-13089	Sequence 13089, A
C 24	134.6	13.4	150780	4	US-09-949-016-14711	Sequence 14711, A
C 25	134.2	13.4	44019	4	US-09-949-016-14902	Sequence 14902, A
C 26	134.2	13.4	168971	4	US-09-949-016-13807	Sequence 13807, A
C 27	134	13.4	117080	4	US-09-949-016-13627	Sequence 12627, A

## RESULT 2

US-09-949-016-13948/c  
; Sequence 13948, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13948  
; LENGTH: 52530  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(52530)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-13948

Query Match 14.1%; Score 141; DB 4; Length 52530;  
Best Local Similarity 76.0%; Pred. No. 1.5e-32;  
Matches 174; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY	3	AAACGAGCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTAATAATC	62
DB	17964	AGACGAGCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTAATTTAAT	17905
QY	63	AGCAGGACAGTGGTGTGTCTGTAGTCCAGCTACTGGGAATATCTGAGGTGAGAGGA	122
DB	17904	AGTAGGACAGTGGGCACATGCTGTGTCTCCAGCTACTCGGAAGCTGAGGTGAGAGGA	17845
QY	123	TTGCTTAAGCCCGGAGGGGAGGCTGTGTAGTGGCAGCATGATACCATCTGCACCTAGAGC	182
DB	17844	TCGCTTGGGCTTGGAGGTCAAGGCTGCAAGTGCAGTGCAGCCATAGTCATGCCACTGCCAGC	17785
QY	183	CTGGCAACAGAGTGGAGCCGATCTTATCTCAAAAAAACAATTTGAAAAA	231
DB	17784	CTGGCAACAGAGCAAGATCTTATCTCAAAAAAACAATTTGAAAAA	17736

## RESULT 3

US-09-949-016-76097/c  
; Sequence 76097, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 76097  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human

## US-09-949-016-76097

Query Match 14.0%; Score 140.6; DB 4; Length 601;  
Best Local Similarity 75.5%; Pred. No. 1.2e-33;  
Matches 173; Conservative 1; Mismatches 55; Indels 0; Gaps 0;  
QY 3 AAACGAGCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTAATAATC 62  
DB 350 AGACGAGCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTTAATTT 291  
QY 63 AGCAGGACAGTGGTGTGTCTGTAGTCCAGCTACTGGGAATATCTGAGGTGAGAGGA 122  
DB 290 AGTAGGACAGTGGGCACATGCTGTGTGTCTCCAGCTACTCGGAAGCTGAGGTGAGAGGA 231  
QY 123 TTGCTTAAGCCCGGAGGGGAGGCTGTGTAGTGGCAGCATGATACCATCTGCACCTAGAGC 182  
DB 230 TCGCTTGGGCTTGGAGGTCAAGGCTGCAAGTGCAGTGCAGCCATAGTCATGCCACTGCCAGC 171  
QY 183 CTGGCAACAGAGTGGAGCCGATCTTATCTCAAAAAAACAATTTTGAATAA 231  
DB 170 CTGGCAACAGAGCAAGATCTTATCTCAAAAAAACAATTTGGGAA 122

## RESULT 4

US-09-949-016-126119  
; Sequence 126119, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 126119  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-126119

Query Match 13.9%; Score 139.6; DB 4; Length 601;  
Best Local Similarity 77.5%; Pred. No. 2.4e-33;  
Matches 169; Conservative 0; Mismatches 49; Indels 0; Gaps 0;  
QY 2 AAACGAGCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTAATAAT 61  
DB 89 AAGACGAGCTGGGCATATATACCAAGACTTATCTCTACAAAAAACAATAAAT 148  
QY 62 CAGCAGGACAGTGGTGTGTCTGTAGTCCAGCTACTGGGAATATCTGAGGTGAGAGG 121  
DB 149 TAGCTGGGACATGGTGGCACAATACCTGTAGTCCAGCTACTTGGAGGCTGAGGTGGAGG 208  
QY 122 ATTGCTTAAGCCCGGAGGGGAGGCTGTGTAGTGCCATATGATACCATCTGCACCTAGAG 181  
DB 209 ATTGCTTGAAGCTGGGAGGTCGAGGCTGAGGTGAGCTGTGATCGTCCACTGCCTCCAG 268  
QY 182 CCTGGCAACAGAGTGGAGCCGAATCACTTAAAAATAA 219  
DB 269 CCTGGGACAGAGTGGGACCCCTCTCAAAAAAATAA 306

## RESULT 5

US-09-949-016-126120  
; Sequence 126120, Application US/09949016  
; Patent No. 6812339

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; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126120
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-126120

Query Match      13.9%; Score 139.6; DB 4; Length 601;
Best Local Similarity 77.5%; Pred. No. 2.4e-33;
Matches 169; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 2 AAACGAGCTGTGCAACATAGCAAGACTCCATCTCTACAAAAAATATTTAAAAAT 61
DB 4 AAGACGAGCTGGGCAATATACCAAGACCTTATCTCTACAAAAAATATTTAAAAAT 63
QY 62 CAGCCAGGACAGTGTGTGTCTGTAGTCCAGCTACTGGGAATCTGAGGTGAGG 121
DB 64 TAGCTGGGACAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 123
QY 122 ATTGCTTAAGCCGGAGGCGAGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 181
DB 124 ATTGCTTGAGCTGGGAGGTCGAGGCTGAGTGTGTGTGTGTGTGTGTGTGTGT 183
QY 182 CTGGACAACAGAGTGAGCCGAATCACTTAAAAATAAA 219
DB 184 CTGGGGCACAGAGTGGGACCCGCTCTCAAAAAATAAA 221

RESULT 6
US-09-949-016-15330
; Sequence 15330, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15330
; LENGTH: 35007
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-15330

Query Match      13.9%; Score 139.6; DB 4; Length 35007;
Best Local Similarity 77.5%; Pred. No. 3.2e-32;
Matches 169; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 2 AAACGAGCTGTGCAACATAGCAAGACTCCATCTCTACAAAAAATATTTAAAAAT 61
DB 4 AAGACGAGCTGGGCAATATACCAAGACCTTATCTCTACAAAAAATATTTAAAAAT 63
QY 62 CAGCCAGGACAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 121
DB 64 TAGCTGGGACAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 123
QY 122 ATTGCTTAAGCCGGAGGCGAGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 181
DB 124 ATTGCTTGAGCTGGGAGGTCGAGGCTGAGTGTGTGTGTGTGTGTGTGTGTGT 183
QY 182 CTGGACAACAGAGTGAGCCGAATCACTTAAAAATAAA 219
DB 184 CTGGGGCACAGAGTGGGACCCGCTCTCAAAAAATAAA 221

RESULT 7
US-09-513-999C-28419/c
; Sequence 28419, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 28419
; LENGTH: 482
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 338
; OTHER INFORMATION: n=a, g, c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 339
; OTHER INFORMATION: n=a, g, c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 340
; OTHER INFORMATION: h=a or c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 377
; OTHER INFORMATION: w=a or t
US-09-513-999C-28419

Query Match      13.9%; Score 139; DB 4; Length 482;
Best Local Similarity 80.6%; Pred. No. 3.2e-33;
Matches 175; Conservative 0; Mismatches 40; Indels 2; Gaps 1;

QY 3 AAACGAGCTGTGCAACATAGCAAGACTCCATCTCTACAAAAAATATTTAAAAATC 62
DB 304 AGACGAGCTGGGCAACACAGGAGAGCCCGCTCTTACCAAAAAAATTTT--AAATT 247
QY 63 AGCCAGGACAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 122
DB 246 AGCCAGGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 187
QY 123 TTGCTTAAGCCGGAGGCGAGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 182
DB 186 TTGCTTAAGCCGGAGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 127
QY 183 CTGGACAACAGAGTGAGCCGAATCACTTAAAAATAAA 219
DB 126 CTGGGGCACAGAGTGGGACCCGCTCTCAAAAAATAAA 90
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DB 18656 AAGACCAGCCTGGCAATATACCAAGACCTTATCTCTACAAAAAATATTTAAAAAT 18715
QY 62 CAGCCAGGACAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 121
DB 18716 TAGCTGGGACAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 18775
QY 122 ATTGCTTAAGCCGGAGGCGAGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 181
DB 18776 ATTGCTTGAGCCTGGGAGGTCGAGGCTGCAGTGTGTGTGTGTGTGTGTGTGT 18835
QY 182 CTGGACAACAGAGTGAGCCGAATCACTTAAAAATAAA 219
DB 18836 CTGGGGCACAGAGTGGGACCCCGCTCTCAAAAAATAAA 18873
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RESULT 7
US-09-513-999C-28419/c
; Sequence 28419, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 28419
; LENGTH: 482
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 338
; OTHER INFORMATION: n=a, g, c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 339
; OTHER INFORMATION: n=a, g, c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 340
; OTHER INFORMATION: h=a or c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 377
; OTHER INFORMATION: w=a or t
US-09-513-999C-28419
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Query Match      13.9%; Score 139; DB 4; Length 482;
Best Local Similarity 80.6%; Pred. No. 3.2e-33;
Matches 175; Conservative 0; Mismatches 40; Indels 2; Gaps 1;

QY 3 AAACGAGCTGTGCAACATAGCAAGACTCCATCTCTACAAAAAATATTTAAAAATC 62
DB 304 AGACGAGCTGGGCAACACAGGAGAGCCCGCTCTTACCAAAAAAATTTT--AAATT 247
QY 63 AGCCAGGACAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 122
DB 246 AGCCAGGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 187
QY 123 TTGCTTAAGCCGGAGGCGAGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 182
DB 186 TTGCTTAAGCCGGAGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 127
QY 183 CTGGACAACAGAGTGAGCCGAATCACTTAAAAATAAA 219
DB 126 CTGGGGCACAGAGTGGGACCCGCTCTCAAAAAATAAA 90
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<b>RESULT 11</b>					
US-09-949-016-58699					
; Sequence 58699, Application US/09949016					
; Patent No. 6812339					
; GENERAL INFORMATION:					
; APPLICANT: VENTER, J. Craig et al.					
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED					
; FILE REFERENCE: CL001307					
; CURRENT APPLICATION NUMBER: US/09/949,016					
; CURRENT FILING DATE: 2000-04-14					
; PRIOR APPLICATION NUMBER: 60/241,755					
; PRIOR FILING DATE: 2000-10-20					
; PRIOR APPLICATION NUMBER: 60/237,768					
; PRIOR FILING DATE: 2000-10-03					
; PRIOR APPLICATION NUMBER: 60/231,498					
; PRIOR FILING DATE: 2000-09-08					
; NUMBER OF SEQ ID NOS: 207012					
; SOFTWARE: FastSeq for Windows Version 4.0					
; SEQ ID NO 58699					
; LENGTH: 601					
; TYPE: DNA					
; ORGANISM: Human					
US-09-949-016-58699					
Query Match 13.8%; Score 137.8; DB 4; Length 601;					
Best Local Similarity 70.5%; Pred. No. 8.e-33;					
Matches 184; Conservative 0; Mismatches 77; Indels 0; Gaps 0;					
Qy	3	AAACCAGCTGGTCAACATACAGACACTCCATCTCTCACAAAAAAAATAATTAAAAATC	62		
Db	331	AGACCAGCTGGGCAACATGCACAGACCTCATCTCTACTAAAAATAAAAAATAAAAAATA	390		
Qy	63	AGCCAGCACAGTCGTGTGTCTCTACTGCCAGCTACTGGGAATCTGAGGTGAGAGA	122		
Db	391	AGCTAGGCATAGCAGTGTTTCATATAGTCCAGCTACTCCAGGAGCAGGTGGGAGA	450		
Qy	123	TTCCTTAAGCCCGGAGGCGGAGGCTGTAGTGAGCCATGATCATACCACTGCACCTAGAGC	182		
Db	451	TCGTTGNAACCCAGAGGTTGAGGCTGCAGTGCTGTGATCACCACTGCCTCCAGC	510		
Qy	183	CTGACACAACAGAGTGAGACCGAATCACTAAAAATAAATTTTTTGGAAAAAGGAGGAAAGG	242		
Db	511	CTAGGTGCACAGAGAAAGACCTTGCTCAAGAAATAAGCAACAAAAATAAGCCTATCAGTA	570		
Qy	243	GTCCTCCCTTGTCTTTGAAAT	263		
Db	571	ATATCCCCAAATGTTAATAAT	591		
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US-09-949-016-15382/c					
; Sequence 15382, Application US/09949016					
; Patent No. 6812339					
; GENERAL INFORMATION:					
; APPLICANT: VENTER, J. Craig et al.					
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED					
; FILE REFERENCE: CL001307					
; CURRENT APPLICATION NUMBER: US/09/949,016					
; CURRENT FILING DATE: 2000-04-14					
; PRIOR APPLICATION NUMBER: 60/241,755					
; PRIOR FILING DATE: 2000-10-20					
; PRIOR APPLICATION NUMBER: 60/237,768					
; PRIOR FILING DATE: 2000-10-03					
; PRIOR APPLICATION NUMBER: 60/231,498					
; PRIOR FILING DATE: 2000-09-08					
; NUMBER OF SEQ ID NOS: 207012					
; SOFTWARE: FastSeq for Windows Version 4.0					
; SEQ ID NO 15382					
; LENGTH: 37292					

QY 243 GTCTCCCTTTGTTTGAAT 263  
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Db 93204 ATATCCCAATTTAATAAT 93224  
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US-09-949-016-13675/c  
; Sequence 13675, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13675  
; LENGTH: 235452  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)...(235452)  
; OTHER INFORMATION: n = A, T, C or G  
US-09-949-016-13675

Query Match 13.7%; Score 136.8; DB 4; Length 235452;  
Best Local Similarity 76.4%; Pred. No. 8e-31;  
Matches 168; Conservative 0; Mismatches 52; Indels 0; Gaps 0;  
QY 2 AAACAGCCTGTGCTCAACATAGCAGACTCCATCTTACAAAAAATATTTAAAT 61  
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Db 114797 AGACAGCTTGAGCAACATAGTGAGGCGCTCTCTCAAAAATATAAAAGTTTAAAT 114738  
| | | | |  
QY 62 CAGCCAGGACAGTGTGTGTCTGTAGTCCAGCTACTGGGAATCTGAGGTGAGAG 121  
| | | | |  
Db 114737 TGCCCAAGCATGTGTGTGCTGTGTCTGCTCCAGTACTTAGAAGACTGAGGTGGAG 114678  
| | | | |  
QY 122 ATTGCTTAAGCCCGGAGGCGAGGCTGTAGTGAGCCATCATACCACTGCCTAGAG 181  
| | | | |  
Db 114677 ATCGATTGAGCCGGAAGCAGAGACTGCGAGTGAGCCAGATCGCACCCTGCACTCTAG 114618  
| | | | |  
QY 182 CCTGGAACAAGTGTGAGCCGATCACTAAAAATTAAT 221  
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Db 114617 CATAGCAACAGAGTGAGACTCTGTCTCAAAAAAAGT 114578  
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RESULT 15  
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; Sequence 127367, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 127367  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
; US-09-949-016-127367  
Query Match 13.6%; Score 136.6; DB 4; Length 601;  
Best Local Similarity 76.5%; Pred. No. 2.1e-32;  
Matches 166; Conservative 1; Mismatches 50; Indels 0; Gaps 0;  
QY 3 AAACAGCCTGTGCTCAACATAGCAGACTCCATCTTACAAAAAATATTTAAAT 62  
| | | | |  
Db 110 AGACAGCCTGTGCGCAACATAGTGAGACCTGACTCTAGAAAAAATAAAAAAT 169  
| | | | |  
QY 63 AGCCAGGCACAGTGTGTGTCTGTAGTCCAGCTACTGGGAATCTGAGGTGAGAG 122  
| | | | |  
Db 170 AGACAGGCATGTGTGCGCAGCTGTGTAGTCCAGCTACTCAGGAGGCTGAGGTGGAG 229  
| | | | |  
QY 123 TTGCTTAAGCCCGGAGGCGAGGCTGTAGTGAGCCATGATCATACCACTGCCTAGAG 182  
| | | | |  
Db 230 TCATTGAGCCCTGGAGGTTGAACTGCAGTAAGTCAIGATGTGCTGCACTGCCAGC 289  
| | | | |  
QY 183 CTGGACAACAGAGTGAGACCGAATCACTAAAAATAAA 219  
| | | | |  
Db 290 CTGGCAACAGMTGAGACCCCTGTCTCAAAAAATAAA 326  
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Job time : 173.991 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: March 21, 2005, 14:19:42 ; Search time 598.681 Seconds  
(without alignments)  
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Perfect score: 1001  
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Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 5544816 seqs, 2976611598 residues

Total number of hits satisfying chosen parameters: 11089632

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq:\*  
12: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq:\*  
13: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq:\*  
14: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq:\*  
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22: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	516.6	51.6	647	13	US-10-027-632-158909
3	516.6	51.6	647	17	US-10-027-632-158909
c	485	48.5	517	16	US-10-029-386-646
5	443.2	44.3	565	9	US-09-864-761-9732
6	345.4	34.5	556	16	US-10-029-386-20399
7	177	17.7	185	9	US-09-864-761-26122
8	156.4	15.6	2693	10	US-09-820-095-1
c	151	15.1	151	16	US-10-029-386-14351
10	69	6.9	958	19	US-10-895-225A-38
11	69	6.9	1583	17	US-10-336-472-51

12	69	6.9	1616	17	US-10-336-472-53	Sequence 53, Appl
13	69	6.9	1978	17	US-10-172-118-786	Sequence 786, App
14	69	6.9	1978	17	US-10-342-887-786	Sequence 786, App
15	69	6.9	1978	18	US-10-370-715B-571	Sequence 571, App
16	67.6	6.8	2299	19	US-10-895-225A-54	Sequence 54, Appl
17	67.4	6.7	1956	9	US-09-864-864-331	Sequence 331, App
18	67.4	6.7	1986	18	US-10-283-975A-239	Sequence 239, App
19	65.6	6.6	1926	16	US-10-133-013-149	Sequence 149, App
20	60	6.0	60	10	US-09-908-975-11060	Sequence 11060, A
21	56.8	5.7	671	14	US-10-184-644-346	Sequence 346, App
22	56.8	5.7	671	14	US-10-425-115-146990	Sequence 346, App
C	23	56.8	5.7	847	18	Sequence 146990, A
C	24	54.8	5.5	636	18	Sequence 168126, A
C	25	54.2	5.4	673	18	Sequence 11145, A
C	26	54	5.4	545	18	Sequence 56258, A
C	27	54	5.4	916	18	Sequence 47293, A
C	28	53.8	5.4	588	18	Sequence 9377, Ap
29	53.6	5.4	3163	15	US-10-021-323-9377	Sequence 1857, Ap
30	53.6	5.4	3163	17	US-10-017-161-1857	Sequence 1513, Ap
31	53.4	5.3	740	18	US-10-292-798-1513	Sequence 1513, Ap
32	53	5.3	740	18	US-10-425-115-131885	Sequence 131885, A
33	53	5.3	5452	15	US-10-017-161-1481	Sequence 1481, Ap
34	52.8	5.3	5452	17	US-10-292-798-1189	Sequence 1189, Ap
35	52.8	5.3	717	17	US-10-424-599-121376	Sequence 121376, A
36	52.2	5.2	809	17	US-10-424-599-26988	Sequence 26988, A
C	37	51.6	674	17	US-10-424-599-69089	Sequence 69089, A
C	38	51.4	630	18	US-10-437-963-18774	Sequence 18774, A
39	51.4	5.1	3133	15	US-10-017-161-1483	Sequence 1483, Ap
40	51.4	5.1	3133	17	US-10-292-798-1191	Sequence 1191, Ap
C	41	51.2	638	18	US-10-437-963-1432	Sequence 1432, Ap
C	42	51.2	796	18	US-10-425-115-178533	Sequence 178533, A
C	43	51	925	18	US-10-437-963-44536	Sequence 44536, A
C	44	51	956	13	US-10-027-632-31508	Sequence 31508, A
C	45	51	956	17	US-10-027-632-31508	Sequence 31508, A
C	46	51	1211	18	US-10-425-115-93385	Sequence 93385, A

ALIGNMENTS

RESULT 1  
US-09-820-095-3  
; Sequence 3, Application US/09820095  
; Publication No. US20030233668A1  
; GENERAL INFORMATION:  
; APPLICANT: WEI, Ming-Hui et al  
; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED  
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR  
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF  
; FILE REFERENCE: CL001202  
; CURRENT APPLICATION NUMBER: US/09/820,095  
; CURRENT FILING DATE: 2001-03-29  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 16449  
; TYPE: DNA  
; ORGANISM: Human  
US-09-820-095-3

Query Match	100.0%;	Score	1001;	DB	10;	Length	16449;
Best Local Similarity	100.0%;	Pred. No.	5.7e-286;				
Matches	1001;	Conservative	0;	Mismatches	0;	Indels	0;
QY	1	ATGCTGACTCATGTGCTGCCGACGCTAGCAGGCTGGCAGCATGGCTCCCGAGGGGTAC	60				
Db	2000	ATGCTGACTCATGTGCTGCCGACGCTAGCAGGCTGGCAGCATGGCTCCCGAGGGGTAC	2059				
QY	61	GACAGCTGGGGCTTCTGGATTATTAAGACGGAAGATGTGATGACCAAGAACTGGCG	120				
Db	2060	GACAGCTGGGGCTTCTGGATTATTAAGACGGAAGATGTGATGACCAAGAACTGGCG	2119				
QY	121	GGTGGCGCCCTGACAGGCTGCTGAGTTGGGATCGTGTATGTAGGTAGGTAAGA	180				

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Db 2120 GGTGGGCGCCCTCAGAGGCTGCTGCAGTTTGGGATCGTGGTCTATGTGGTAGGGTAAGA 2179
QY 181 GAGAAAGCTTTTGGCGAGCTCGAGGCGCAAGGAGAGAGTGGGGGTGGGGCTTGGTC 240
Db 2180 GAGAAAGCTTTTGGCGAGCTCGAGGCGCAAGGAGAGAGTGGGGGTGGGGCTTGGTC 2239
QY 241 CTCTCGGTTGAAGTTGAGGGTTGGGCTGTTTAAAGGGCTGGAGTGAAGGGGCGAGATTG 300
Db 2240 CTCTCGGTTGAAGTTGAGGGTTGGGCTGTTTAAAGGGCTGGAGTGAAGGGGCGAGATTG 2299
QY 301 GGAAGGGTTGGGAGAGCTAGCGGATACAAGACAGAGAGCAAGAACTGTGTGTT 360
Db 2300 GGAAGGGTTGGGAGAGCTAGCGGATACAAGACAGAGAGCAAGAACTGTGTGTT 2359
QY 361 TGTCTGTGTGTCATCTTCCAGGCTCTTCCAGGCGCCCAACCCAGGCGCCCAACCCAGGCGCA 420
Db 2360 TGTCTGTGTGTCATCTTCCAGGCTCTTCCAGGCGCCCAACCCAGGCGCCCAACCCAGGCGCA 2419
QY 421 CATGACATAGTCTTAAACATCTGTAGAGCTGTGAGCACTAGGCGCCCAACCCAGGCGCA 480
Db 2420 CATGACATAGTCTTAAACATCTGTAGAGCTGTGAGCACTAGGCGCCCAACCCAGGCGCA 2479
QY 481 GCTGTATCTCGGTCAGGAGAGCTGTAAAGGGGAAAGCTGGATCTAGTCAGGCTGGGGT 540
Db 2480 GCTGTATCTCGGTCAGGAGAGCTGTAAAGGGGAAAGCTGGATCTAGTCAGGCTGGGGT 2539
QY 541 GGTGTCTGCTAGTGAAGGTGATTGTCAGGGCACTTGGCTCTCTCATGCTGGCTGGAG 600
Db 2540 GGTGTCTGCTAGTGAAGGTGATTGTCAGGGCACTTGGCTCTCTCATGCTGGCTGGAG 2599
QY 601 CTCTCTCTCATTTACGGGGTCTGAGAGTGGGAAAGTGGGCGCAGAGAGAGTGGGGCTT 660
Db 2600 CTCTCTCTCATTTACGGGGTCTGAGTGGGAAAGTGGGCGCAGAGAGAGTGGGGCTT 2659
QY 661 CGATGTTGGGCGGAGCTGTAGGGTGTGGGGGAGAACTGAGCATGTAGGGCTCAGCT 720
Db 2660 CGATGTTGGGCGGAGCTGTAGGGTGTGGGGGAGAACTGAGCATGTAGGGCTCAGCT 2719
QY 721 CGCCCTCTGCTACACGCTGGGAGACACACACTGCGGACTTCTCTCCCGAGGTG 780
Db 2720 CGCCCTCTGCTACACGCTGGGAGACACACACTGCGGACTTCTCTCCCGAGGTG 2779
QY 781 GGCTCTCTCGCCAAAGAGCTTACAGAGCGGGACCTGGAAACCCAGTTTCCATCAT 840
Db 2780 GGCTCTCTCGCCAAAGAGCTTACAGAGCGGGACCTGGAAACCCAGTTTCCATCAT 2839
QY 841 CACCAAACTCAAAGGGTTTCCGTCATCAGATCAAGAGAGCTTGGAAAACCGGCTGTGGGA 900
Db 2840 CACCAAACTCAAAGGGTTTCCGTCATCAGATCAAGAGAGCTTGGAAAACCGGCTGTGGGA 2899
QY 901 TGTGGCGGACTTCGTGAAGCACTCAGGTGGGGGCGCTGATGTTGCTGACGGGGCGCA 960
Db 2900 TGTGGCGGACTTCGTGAAGCACTCAGGTGGGGGCGCTGATGTTGCTGACGGGGCGCA 2959
QY 961 AGTCTCTTCCCACTGACAGCTTGAACACCCCGCATGCGAGC 1001
Db 2960 AGTCTCTTCCCACTGACAGCTTGAACACCCCGCATGCGAGC 3000
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## RESULT 2

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US-10-027-632-158909
; Sequence 158909, Application US/10027632
; Publication No. US2002019837A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
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; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 158909
; LENGTH: 647
; TYPE: DNA
; ORGANISM: Human
; US-10-027-632-158909

Query Match 51.6%; Score 516.6; DB 13; Length 647;
Best Local Similarity 99.8%; Pred. No. 1e-142; 0; Indels 0; Gaps 0;
Matches 516; Conservative 1; Mismatches 0;

QY 485 TATCTCGGTCAGGAGAGTCTGTAAAGGGGAAAGCTGGATCTAGTCAGGCTGGGGGTGGGT 544
Db 1 TATCTCGGTCAGGAGAGTCTGTAAAGGGGAAAGCTGGATCTAGTCAGGCTGGGGGTGGGT 60
QY 545 GCTGGCTAGTGAAGGTGATTGTCAGGGCACTTGGCTCTCTCATGCTGGCTGGAGCTTC 604
Db 61 GCTGGCTAGTGAAGGTGATTGTCAGGGCACTTGGCTCTCTCATGCTGGCTGGAGCTTC 120
QY 605 TGTCTCATTTACGGGGTCTGAGAGTGGGAAAGTGGGCGCAGAGAGAGTGGGGCTTCCGAT 664
Db 121 TGTCTCATTTACGGGGTCTGAGAGTGGGAAAGTGGGCGCAGAGAGAGTGGGGCTTCCGAT 180
QY 665 GTTGGCGCGGAGCTGTAGGGTGTGGGGGAGAACTGAGCATGTAGGGCTCAGCTCCGC 724
Db 181 GTTGGCGCGGAGCTGTAGGGTGTGGGGGAGAACTGAGCATGTAGGGCTCAGCTCCGC 240
QY 725 CCCTGTCTACTACGCTGGGAGACACACACTGCGGACTTCTCTCCCGAGGTGGGT 784
Db 241 CCCTGTCTACTACGCTGGGAGACACACACTGCGGACTTCTCTCCCGAGGTGGGT 300
QY 785 CTCCTCGCCAAAGAGCTTACAGAGCGGGACCTGGAAACCCAGTTTCCATCATCACC 844
Db 301 CTCCTCGCCAAAGAGCTTACAGAGCGGGACCTGGAAACCCAGTTTCCATCATCACC 360
QY 845 AAACCTCAAAGGGTTTCCGTCATCAGATCAAGAGAGCTTGGAAAACCGGCTGTGGGATGTG 904
Db 361 AAACCTCAAAGGGTTTCCGTCATCAGATCAAGAGAGCTTGGAAAACCGGCTGTGGGATGTG 420
QY 905 GCGGACTTCGTGAAGCACTCAGGTGGGGGCGCTGATGTTGCTGACGGGGCGCAAGTC 964
Db 421 GCGGACTTCGTGAAGCACTCAGGTGGGGGCGCTGATGTTGCTGACGGGGCGCAAGTC 480
QY 965 CTTTCCCACTGACAGCTTGAACACCCCGCATGCGAGC 1001
Db 481 CTTTCCCACTGACAGCTTGAACACCCCGCATGCGAGC 517
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## RESULT 3

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US-10-027-632-158909
; Sequence 158909, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
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Query Match	48.5%;	Score 485;	DB 16;	Length 517;
Best Local Similarity	100.0%;	Pred. No. 2.3e-133;		
Matches 485;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

  

Qy	517	GCTGGATCTAGTCAGGCTGGGGTGGGGTCTGGCTAGTGAAGGTGATTGCTGAGGGCAT	576	
Db	517	GCTGGATCTAGTCAGGCTGGGGTGGGGTCTGGCTAGTGAAGGTGATTGCTGAGGGCAT	458	
Qy	577	TGGCTCTCTGATGCATGGCTTGGAGCTTCTGTCTCATTCAGGGGCTCTGGAGTGGGAAATG	636	
Db	457	TGGCTCTCTGATGCATGGCTTGGAGCTTCTGTCTCATTCAGGGGCTCTGGAGTGGGAAATG	398	
Qy	637	GGGCGAGAGAGGAGGTGGGGCTTTCGATGTTTGGGCCGGGAGCCTGTGTAGGGTGTGGGGGA	696	
Db	397	GGGCGAGAGAGGAGGTGGGGCTTTCGATGTTTGGGCCGGGAGCCTGTGTAGGGTGTGGGGGA	338	
Qy	697	GAATGAGCATGTAGGGCTCAGCTCCGCCCTGTCTACGTACAGCTGGGGACACACCAAC	756	
Db	337	GAATGAGCATGTAGGGCTCAGCTCCGCCCTGTCTACGTACAGCTGGGGACACACCAAC	278	
Qy	757	TGCCCGACTTCTCTCTCCCGAGGTGGGCTCTCTCGCCAAAAAGGCTACCGAGGACGGGA	816	
Db	277	TGCCCGACTTCTCTCTCCCGAGGTGGGCTCTCTCGCCAAAAAGGCTACCGAGGACGGGA	218	
Qy	817	CCTGGAAACCCAGTTTTCATCATCAACAACTCAAAAGGGTTTCCGTCACTCAGATCAA	876	
Db	217	CCTGGAAACCCAGTTTTCATCATCAACAACTCAAAAGGGTTTCCGTCACTCAGATCAA	158	
Qy	877	GGAGCTTGGAAACCGGCTGTGGGATGCGCGACTTCGTGAAGCCACTCAGTGGGGGC	936	
Db	157	GGAGCTTGGAAACCGGCTGTGGGATGCGCGACTTCGTGAAGCCACTCAGTGGGGGC	98	
Qy	937	CCTGATGTTGCTGACGGGGCGCAAGTCTTTTCCCACTGACAGCCTGAAACCCCGCCAT	996	
Db	97	CCTGATGTTGCTGACGGGGCGCAAGTCTTTTCCCACTGACAGCCTGAAACCCCGCCAT	38	
Qy	997	GCAGC 1001		
Db	37	GCAGC 33		

  

RESULT 5
US-09-864-761-9732
; Sequence 9732, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USE

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RESULT 5
US-09-864-761-9732
: Sequence 9732, Application US/09864761
: Patent No. US20020048763A1
: GENERAL INFORMATION:
: APPLICANT: Penn, Sharon G.
: APPLICANT: Rank, David R.
: APPLICANT: Hanzel, David K.
: APPLICANT: Chen, Wensheng
: TITLE OF INVENTION: HUMAN GENOME-DERI

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;; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY

;; FILE REFERENCE: Aeonica-X-1  
;; CURRENT APPLICATION NUMBER: US/09/864,761  
;; CURRENT FILING DATE: 2001-05-23  
;; PRIOR APPLICATION NUMBER: US 60/180,312  
;; PRIOR FILING DATE: 2000-02-04  
;; PRIOR APPLICATION NUMBER: US 60/207,456  
;; PRIOR FILING DATE: 2000-05-26  
;; PRIOR APPLICATION NUMBER: US 09/632,366  
;; PRIOR FILING DATE: 2000-08-03  
;; PRIOR APPLICATION NUMBER: GB 24263.6  
;; PRIOR FILING DATE: 2000-10-04  
;; PRIOR APPLICATION NUMBER: US 60/236,359  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: PCT/US01/00666  
;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00667  
;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00664  
;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00669  
;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00665  
;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00668  
;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00663  
;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00662  
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;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00670  
;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: US 60/234,687  
;; PRIOR FILING DATE: 2000-09-21  
;; PRIOR APPLICATION NUMBER: US 09/608,408  
;; PRIOR FILING DATE: 2000-06-30  
;; PRIOR APPLICATION NUMBER: US 09/774,203  
;; PRIOR FILING DATE: 2001-01-29  
;; NUMBER OF SEQ ID NOS: 49117  
;; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1  
;; SEQ ID NO 9732  
;; LENGTH: 565  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
;; FEATURE:  
;; OTHER INFORMATION: MAP TO AC002472.3  
;; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.5  
;; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.5  
;; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.9  
;; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.9

US-09-864-761-9732

Query Match 44.3%; Score 443.2; DB 9; Length 565;  
Best Local Similarity 91.2%; Pred. No. 5.7e-121;  
Matches 498; Conservative 0; Mismatches 33; Indels 15; Gaps 2;

QY 456 CACTAGGCCCCAGAGAGACCACAGCTGTATCTCGGGTCAGGAGAGTCTGTAAAGGGGA 515  
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QY 516 AGCTGGATCTAGTCAGGCTGGGGTGGTCTGCTAGTCAGAGGTCATTTCTGAGGGCA 575  
DB 61 AGCTGGGCTTACTAGGCTGGGGTGGTCTGCTAGTCAGAGGTCATTTCTGAGGGCA 120  
QY 576 TTGGCTCTCTGATGCTAGGCTGAGGCTTCTGTCTCATTCAGGGGGTCTGAGTGGGAAGT 635  
DB 121 CTGGCTCTCTGATGCTAGGCTGAGGCTTCTGTCTCGTTCAAGGAGTCTACAGTGGGAAGT 180  
QY 636 GGGGCCAGAGAGAGAGTGGGGCTTCGATGTTGGGCCGGGAGCCTGTAGGTTGGGGGG 695  
DB 181 GGGGCCAGAGAG-----GATGCTGAGACTGGAGCCTCTAGGGTGTGGGGAG 226

QY 696 AGAACTGAGCATGTAGGGCTCAGCTCCGCCCTGTCTACTACACGCTGGGGACACACCACA 755  
DB 227 AGAACTGAGCATGTAGGGCCAGCTCTGCCCC-GTCACTACACGCTGGGGGACACACCACA 285  
QY 756 CTGCCCGACTTCTCTCTCCCGAGGTGGGTCTCTCTCGCCAAAAAAGGCTACACAGGAGCGGG 815  
DB 286 CTGCCCATCTTCTCTCTCCCGAGGTGGGTCTCTCGCCAAAAAAGGCTACACAGGAGCGGG 345  
QY 816 ACCTGGAACCCAGATTTTCCATCATCACCAAACTCAAGGGGTTCCTCGTCACTCAGATCA 875  
DB 346 ACCTGGAACCCAGATTTTCCATCATCACCAAACTCAAGGGGTTCCTCGTCACTCAGATCA 405  
QY 876 AGGAGCTTGGAAACCGGCTGTGGGATGTGGCGAGTCTCTGTGAAGCCACCTCAGGTGGGG 935  
DB 406 AGGAGCTTGGAAACCGGCTGTGGGATGTGGCGAGTCTCTGTGAAGCCACCTCAGGTGGGG 465  
QY 936 CCCTGATGTTGCTGACGGGGCGCAAGTCTTTTCCCACTGACAGCTGAAACACCCGCCA 995  
DB 466 CCCTGATGTTGCTGACGGGGCGCAAGTCTTTTCCCACTGACAGCTTGAACACCCGCCA 525  
QY 996 TGCAGC 1001  
DB 526 TGCAGC 531

RESULT 6

US-10-029-386-20399  
; Sequence 20399, Application US/10029386  
; Publication NO. US20030194704A1  
; GENERAL INFORMATION:  
; APPLICANT: Penn, Sharron G.  
; APPLICANT: Rank, David R.  
; APPLICANT: Hanzel, David K.  
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR GI  
; TITLE OF INVENTION: EXPRESSION ANALYSIS TWO  
; FILE REFERENCE: AEOMICA-X-2  
; CURRENT APPLICATION NUMBER: US/10/029,386  
; CURRENT FILING DATE: 2001-12-20  
; NUMBER OF SEQ ID NOS: 34288  
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1  
; SEQ ID NO 20399  
; LENGTH: 556  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: MAP TO AC002472.3  
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.2  
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 2  
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.6  
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.4  
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.2  
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3  
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.6  
; OTHER INFORMATION: NT HIT: AB002059.1, EVALUE 0.00e+00  
; OTHER INFORMATION: EST HUMAN HIT: BG912438.1, EVALUE 5.00e-45  
; OTHER INFORMATION: SWISSPROT HIT: O15547, EVALUE 1.00e-15

US-10-029-386-20399

Query Match 34.5%; Score 345.4; DB 16; Length 556;  
Best Local Similarity 93.7%; Pred. No. 5.4e-92;  
Matches 372; Conservative 0; Mismatches 21; Indels 4; Gaps 1;

QY 1 ATGCTGACTCATGTGCCCGCAGCTAGCAGGAGCTGGCAGCATGGGTCCCGAGGGGTAC 60  
DB 164 ATGCTGACTCATGTGCCCGCAGCTAGCAGGAGCTGGCAGCATGGGTCCCGAGGGGTAC 223  
QY 61 GACAGCTGGGGCTTCTGGATTATAAGACGAGAGATGTATGATGACACAGGAACCTGGCG 120  
DB 224 ACAGACTAGGGGCTTCTGGATTATAAGACGAGAGATGTATGATGACACAGGAACCTGGTG 283  
QY 121 GGTGGCGCCCTGACAGAGCTCTCAGTTTGGGATCGGTGTATGTGTAGGTAGGTAAGA 180

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Db 284 GGGGGGGCCCTCCAGAGGCTGCTGCAGTTTGGGATCGTCTATGTGTAGGTAAAG 343
Qy 181 GAGAGAGCTTTTGGCAGCTGAGGGGCAAGGAGAGGTGGGGGTGGGGCTTTGGTC 240
Db 344 GAGAGAGCTTTTGGCAGCTGAGGGGCAAGGAGAGGTGGGGGTGGGGCTTTGGTC 403
Qy 241 CTGCTGGTGAAGTTGAGGTTGGGCTGTTTAGGGGCTGGAGTGAAGGGGCGAGATTG 300
Db 404 CTGCTGGTGAAGTTGAGGTTGGGCTGTTTAGGGGCTGGAGGGAAGGGGCGCATAATG 463
Qy 301 GAGCGGGGTTGGGAGAGCTAGCGGATACAAAGACAGAGAGCAAGCAAGCTGTGTGTT 360
Db 464 GAGCGGGGTTGGGAGAGCTAGCGGATACAAAGACAGAGAGCAAGCAAGCTGTGTGTT 519
Qy 361 TGTCTGTGTGTCCTGCTGCTCTTCCAGGCCCCC 397
Db 520 TGTCTGTGTGTCCTGCTGCTCTTCCAGTCCCTC 556
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RESULT 7
US-09-864-761-26122
; Sequence 26122, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Acomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; PRIOR FILING DATE: 2001-05-23
; PRIOR FILING DATE: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
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; PRIOR FILING DATE: 2001-01-30
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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 26122
; LENGTH: 185
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; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC002472.3
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.9
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.9
; OTHER INFORMATION: NT HIT: AB002059.1, EVALUE 1.00e-90
; OTHER INFORMATION: EST HUMAN HIT: BE876713.1, EVALUE 3.00e-80
; OTHER INFORMATION: SWISSPROT HIT: O15547, EVALUE 2.00e-22
US-09-864-761-26122
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Query Match 17.7%; Score 177; DB 9; Length 185;
Best Local Similarity 97.3%; Pred. No. 3.5e-42;
Matches 180; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
Qy 778 GTGGGCTCTCTCGCCAAAAAGGCTTACCAGAGCGGGACCTGGAAACCCAGTTTCCAT 837
Db 1 GTGGGCTCTCTCGCCAAAAAGGCTTACCAGAGCGGGACCTGGAAACCCAGTTTCCAT 60
Qy 838 CATCACCAAACTCAAAGGGGTTTCCGTCACTCAGATCAAGGAGCTTGGAAACCCGGCTGTG 897
Db 61 CACAACCAAACTCAAAGGGGTTTCCGTCACTCAGATCAAGGAGCTTGGAAACCCGGCTGTG 120
Qy 898 GGATGTGGCCGACTTCGTGAAGCCACTCAGGTGGGGGCCCTGATGTTGCTGACGGGGGC 957
Db 121 GGATGTGGCCGACTTCGTGAAGCCACTCAGGTGGGGGCCCTGATGTTGCTGACGGGGGC 180
Qy 958 GCAAG 962
Db 181 GCAAG 185
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RESULT 8
US-09-820-095-1
; Sequence 1, Application US/09820095
; Publication No. US2003023368A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Ming-Hui et al
; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001202
; CURRENT APPLICATION NUMBER: US/09/820,095
; CURRENT FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2693
; TYPE: DNA
; ORGANISM: Human
US-09-820-095-1
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Query Match 15.6%; Score 156.4; DB 10; Length 2693;
Best Local Similarity 93.7%; Pred. No. 7.1e-36;
Matches 163; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy 776 AGTGGGCTCTCTCGCCAAAAAGGCTTACCAGAGCGGGACCTGGAAACCCAGTTTCC 835
Db 95 AAGTGGGCTCTCTCGCCAAAAAGGCTTACCAGAGCGGGACCTGGAAACCCAGTTTCC 154
Qy 836 ATCATCACCAAACTCAAAGGGGTTTCCGTCACTCAGATCAAGGAGCTTGGAAACCCGGCTG 895
Db 155 ATCATCACCAAACTCAAAGGGGTTTCCGTCACTCAGATCAAGGAGCTTGGAAACCCGGCTG 214
Qy 896 TGGGATGTGGCCGACTTCTGTGAAGCCACTCAGGTGGGGGCCCTGATGTTGCTG 949
Db 215 TGGGATGTGGCCGACTTCTGTGAAGCCACTCAGGTGGGGGCCCTGATGTTGCTG 268

RESULT 9
US-10-029-386-14351/c
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Sequence 14351, Application US/10029386  
Publication No. US20030194704A1  
GENERAL INFORMATION:  
APPLICANT: Penn, Sharron G.  
APPLICANT: Hanzel, David K.  
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR G  
FILE REFERENCE: ABOMICA-X-2  
CURRENT APPLICATION NUMBER: US/10/029,386  
CURRENT FILING DATE: 2001-12-20  
NUMBER OF SEQ ID NOS: 34288  
SOFTWARE: Anomax Sequence Listing Engine vers. 1.1  
SEQ ID NO 14351  
LENGTH: 151  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: MAP TO CHR22 179.0  
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.86  
OTHER INFORMATION: EXPRESSED IN PETAL LIVER, SIGNAL = 1.5  
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.4  
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.5  
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.7  
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.6  
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3  
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.2  
OTHER INFORMATION: EST HUMAN HIT: B1757011.1, EVALUE 1.00e-79  
OTHER INFORMATION: NT HIT: g144777539, EVALUE 9.00e-80  
OTHER INFORMATION: SWISSPROT HIT: O15547, EVALUE 9.00e-24  
US-10-029-386-14351

Query Match 15.1%; Score 151; DB 16; Length 151;  
Best Local Similarity 100.0%; Pred. No. 1.7e-34; Indels 0; Gaps 0;  
Matches 151; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 778 GTGGGCTCTCTCGCCAAAAGGCTTCCCTCACTCAGATCAAGGAGCTTGGAAACCGGCTGTG 837  
DB 151 GTGGGCTCTCTCGCCAAAAGGCTTCCCTCACTCAGATCAAGGAGCTTGGAAACCGGCTGTG 92  
QY 838 CATCACCAACTCAAGGGGTTTCCCTCACTCAGATCAAGGAGCTTGGAAACCGGCTGTG 897  
DB 91 CATCACCAACTCAAGGGGTTTCCCTCACTCAGATCAAGGAGCTTGGAAACCGGCTGTG 32  
QY 898 GGATGTGGCGGACTTCTGTGAAGCCACTCAG 928  
DB 31 GGATGTGGCGGACTTCTGTGAAGCCACTCAG 1

RESULT 10  
US-10-895-225A-38  
Sequence 38, Application US/10895225A  
Publication No. US20050048587A1  
GENERAL INFORMATION:  
APPLICANT: Rao, Patricia  
APPLICANT: Snyder, Jessica  
APPLICANT: Bagley, Andria  
TITLE OF INVENTION: METHODS FOR IDENTIFYING TOLERANCE  
FILE REFERENCE: TLN-025  
CURRENT APPLICATION NUMBER: US/10/895,225A  
CURRENT FILING DATE: 2004-07-19  
PRIOR APPLICATION NUMBER: 60/488,502  
PRIOR FILING DATE: 2003-07-17  
NUMBER OF SEQ ID NOS: 161  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 38  
LENGTH: 958  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-895-225A-38

Query Match 6.9%; Score 69; DB 19; Length 958;

Best Local Similarity 61.3%; Pred. No. 4.6e-10;  
Matches 111; Conservative 0; Mismatches 70; Indels 0; Gaps 0;  
QY 769 CCTCCCGAGGTGGGCTCTCTCGCCAAAAGGCTTCCCTCACTCAGATCAAGGAGCTTGGAAA 828  
DB 413 CTGGTGTGATGGGTGTTCTCTGATTAAGAGGTTTACCAAGACGTCGACACCTCCCTGCA 472  
QY 829 GTTTTCCATCATCACCAAACTCAAAAGGGGTTTCCGTCTCACTCAGATCAAGGAGCTTGGAAA 888  
DB 473 GAGTGTGTCTCATCACCAAGTCAAGGGCGTGGCCCTTCCACACACCTCGATCTTGGGCA 532  
QY 889 CCGGCTGTGGGATGTGGCGGACTTCTGTGAAGCCACTCAGTGGGGGCGCTGATGTGCT 948  
DB 533 GCGGATCTGGGATGTGGCGGACTTCTGTGAAGCCACTCAGTGGGGGCGGAGAGACGCTCTTTTGT 592  
QY 949 G 949  
DB 593 G 593

RESULT 11  
US-10-336-472-51  
Sequence 51, Application US/10336472  
Publication No. US20040043929A1  
GENERAL INFORMATION:  
APPLICANT: Anderson, David W.  
APPLICANT: Ballinger, Robert A.  
APPLICANT: Baumgartner, Jason C.  
APPLICANT: Burgess, Catherine E.  
APPLICANT: Casman, Stacie J.  
APPLICANT: Chant, John S.  
APPLICANT: Berghs, Constance  
APPLICANT: Gangolli, Esha A.  
APPLICANT: Edinger, Shlomit R.  
APPLICANT: Ellerman, Karen  
APPLICANT: Furtak, Katarzyna  
APPLICANT: Gerlach, Valerie  
APPLICANT: Gilbert, Jennifer A.  
APPLICANT: Gunther, Erik  
APPLICANT: Gorman, Linda  
APPLICANT: Guo, Xiaojia Sasha  
APPLICANT: Ji, Weizhen  
APPLICANT: Li, Li  
APPLICANT: Liu, Xiaohong  
APPLICANT: Miller, Charles E.  
APPLICANT: Millet, Isabelle  
APPLICANT: Padigaru, Muralidhara  
APPLICANT: Patturajan, Meera  
APPLICANT: Rastelli, Luca  
APPLICANT: MacDougall, John R.  
APPLICANT: Mishra, Vishnu  
APPLICANT: Pena, Carol E.A.  
APPLICANT: Spaderna, Steven K.  
APPLICANT: Shinkets, Richard A.  
APPLICANT: Smithson, Glennda  
APPLICANT: Spytek, Kimberly A.  
APPLICANT: Stone, David J.  
APPLICANT: Shenoy, Suresh G.  
APPLICANT: Ort, Tatiana  
APPLICANT: Taupier Jr, Raymond J.  
APPLICANT: Tchernev, Velizar T.  
APPLICANT: Vernet, Corine A.M.  
APPLICANT: Wolenc, Adam R.  
APPLICANT: Zerhusen, Bryan D.  
APPLICANT: Zhong, Mei  
TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME  
FILE REFERENCE: 21402-533C  
CURRENT APPLICATION NUMBER: US/10/336,472  
CURRENT FILING DATE: 2003-01-03  
PRIOR APPLICATION NUMBER: 09/746,491  
PRIOR FILING DATE: 2000-12-20  
PRIOR APPLICATION NUMBER: 10/005,041  
PRIOR FILING DATE: 2001-12-04



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; PRIOR APPLICATION NUMBER: 10/023,681
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: 10/024,212
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: 10/055,569
; PRIOR FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: 10/080,334
; PRIOR FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: 10/092,900
; PRIOR FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: 10/136,826
; PRIOR FILING DATE: 2002-05-01
; PRIOR APPLICATION NUMBER: 10/236,417
; PRIOR FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: 60/345,092
; PRIOR FILING DATE: 2002-01-04
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: Curasequelist version 0.1
; SEQ ID NO 51
; LENGTH: 1583
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (16)..(1059)
US-10-336-472-51

Query Match          6.9%; Score 69; DB 17; Length 1583;
Best Local Similarity 61.3%; Pred. No. 5.1e-10;
Matches 111; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

QY 769 CCTCCCCAGGTGGGCTCTCTCGCCAAAAGGCTACCGAGCGGGACCTGGAAACCCCA 828
Db 144 CCTGGTCGTATGGGTGTTCTGTATAAGAGGGTTACCAAGAGCTCGACACCTCCCTGCA 203
QY 829 GTTTTTCATCATCAACAACTCAAGGGGTTTCGGTCACCTCAGATCAAGAGGCTTGGAAA 888
Db 204 GAGTGTGTCTATCACCAGAGTCAAGGGCGTGGGCTTCCACCAACACCTCGGATCTTGGGCA 263
QY 889 CCGGCTGTGGGATGGCCGACCTCTGTGAAGCCACTCAGGTGGGGCCCTGATGTGCT 948
Db 264 GCGGATCTGGGATGTGCGCGACTACGTCTATCCAGCCAGGAGAGAACGCTTTTTTGT 323
QY 949 G 949
Db 324 G 324

RESULT 12
US-10-336-472-53
; Sequence 53, Application US/10336472
; Publication No. US20040043929A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David W.
; APPLICANT: Ballinger, Robert A.
; APPLICANT: Baumgartner, Jason C.
; APPLICANT: Burgess, Catherine E.
; APPLICANT: Casman, Stacie J.
; APPLICANT: Chant, John S.
; APPLICANT: Berghs, Constance
; APPLICANT: Gangolli, Baha A.
; APPLICANT: Edinger, Shlomit R.
; APPLICANT: Ellerman, Karen
; APPLICANT: Furtak, Katarzyna
; APPLICANT: Gerlach, Valerie
; APPLICANT: Gilbert, Jennifer A.
; APPLICANT: Gunther, Erik
; APPLICANT: Gorman, Linda
; APPLICANT: Guo, Xiaojia Sasha
; APPLICANT: Ji, Weizhen
; APPLICANT: Li, Li
; APPLICANT: Liu, Xiaohong
```

```
; APPLICANT: Miller, Charles E.
; APPLICANT: Millet, Isabelle
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Patturajan, Meera
; APPLICANT: Rastelli, Luca
; APPLICANT: MacDougall, John R.
; APPLICANT: Mishra, Vishnu
; APPLICANT: Pena, Carol E.A.
; APPLICANT: Spaderna, Steven K.
; APPLICANT: Shinkets, Richard A.
; APPLICANT: Smithson, Glennda
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Stone, David J.
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Ort, Tatiana
; APPLICANT: Taupier Jr, Raymond J.
; APPLICANT: Tchernev, Velizar T.
; APPLICANT: Vernet, Corine A.M.
; APPLICANT: Wolenc, Adam R.
; APPLICANT: Zerhusen, Bryan D.
; APPLICANT: Zhong, Mei
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-533C
; CURRENT APPLICATION NUMBER: US/10/336,472
; CURRENT FILING DATE: 2003-01-03
; PRIOR APPLICATION NUMBER: 09/746,491
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 10/005,041
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 10/023,681
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: 10/024,212
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: 10/055,569
; PRIOR FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: 10/080,334
; PRIOR FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: 10/092,900
; PRIOR FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: 10/136,826
; PRIOR FILING DATE: 2002-05-01
; PRIOR APPLICATION NUMBER: 10/236,417
; PRIOR FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: 60/345,092
; PRIOR FILING DATE: 2002-01-04
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: Curasequelist version 0.1
; SEQ ID NO 53
; LENGTH: 1616
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (37)..(858)
US-10-336-472-53
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Query Match          6.9%; Score 69; DB 17; Length 1616;
Best Local Similarity 61.3%; Pred. No. 5.1e-10;
Matches 111; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

QY 769 CCTCCCCAGGTGGGCTCTCTCGCCAAAAGGCTACCGAGCGGGACCTGGAAACCCCA 828
Db 165 CCTGGTCGTATGGGTGTTCTGTATAAGAGGGTTACCAAGAGCTCGACACCTCCCTGCA 224
QY 829 GTTTTTCATCATCAACAACTCAAGGGGTTTCGGTCACCTCAGATCAAGAGGCTTGGAAA 888
Db 225 GAGTGTGTCTATCACCAGAGTCAAGGGCGTGGGCTTCCACCAACACCTCGGATCTTGGGCA 284
QY 889 CCGGCTGTGGGATGTGCGCGACTTCTGTGAAGCCACTCAGGTGGGGCCCTGATGTGCT 948
Db 285 GCGGATCTGGGATGTGCGCGACTTCTGTGAAGCCACTCAGGTGGGGCCCTGATGTGCT 948
344
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Db 285 GCGATCTGGGATGTCGCCGACTACGTCA TTCAGCCCGGAGAGACGCTCTTTTGT 344

Qy 949 G 949

Db 345 G 345

Search completed: March 21, 2005, 16:34:21  
Job time : 599.681 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: March 21, 2005, 14:16:36 ; Search time 170.991 Seconds  
(without alignments)

Title: US-09-820-095B-3\_COPY\_2000\_3000  
Perfect score: 1001  
Sequence: 1 atactgattcatgtgccgc.....ctgaacacccgcacatgcacg 1001

Scoring table: IDENTITY NUC

Scoring table:  
IDENRIT-NOG  
Gapop 10.0 ; Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Minimum DB seq	length: 0
Maximum DB seq	length: 2000000000

Post-processing: Minimum Match 08

POST-PROCESSING: Minimum Match 0%  
Maximum Match 100%

Database : Issued Patents NA:\*

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3: /cgn2_6/ptodata/1/lna/6A_COMB.seq.*
4: /cgn2_6/ptodata/1/lna/6B_COMB.seq.*
5: /cgn2_6/ptodata/1/lna/FCRUS_COMB.seq.*
6: /cgn2_6/ptodata/1/lna/backfiles1.seq.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SIMMARTES

Result No.	Score	Query Match	Length	DB	ID	Description
1	176.2	17.6	1697	3	US-09-381-681-2	Sequence 2, Appli
2	171.2	17.1	394	3	US-09-191-136-27	Sequence 27, Appl
3	167.2	16.7	1360	3	US-09-191-136-30	Sequence 30, Appl
4	155.4	15.5	1293	3	US-09-381-681-1	Sequence 1, Appli
5	78.8	7.9	25370	4	US-09-949-016-12109	Sequence 12109, A
6	78.8	7.9	25375	4	US-09-949-016-15880	Sequence 15880, A
7	70.6	7.1	1946	4	US-09-949-016-4138	Sequence 4138, Ap
8	69	6.9	1978	4	US-09-949-016-367	Sequence 367, App
9	69	6.9	7218	1	US-08-232-463-14	Sequence 14, Appl
10	53.6	5.4	1997	2	US-08-750-134A-6	Sequence 6, Appli
11	53.6	5.4	1997	3	US-09-363-745-6	Sequence 6, Appli
12	49.8	5.0	27600	4	US-09-949-016-15290	Sequence 15290, A
13	48.6	4.9	320	3	US-09-165-264-7	Sequence 7, Appli
14	47.8	4.8	152331	3	US-09-128-155-16	Sequence 16, Appl
15	47.6	4.8	1166	3	US-09-072-596-323	Sequence 323, App
16	47.6	4.8	1166	4	US-09-072-967-328	Sequence 328, App
17	47.4	4.7	318	3	US-09-165-264-12	Sequence 12, Appl
18	47.2	4.7	320	3	US-09-165-264-14	Sequence 14, Appl
19	47.2	4.7	1206	3	US-09-191-608-21	Sequence 21, Appl
20	47.2	4.7	1389	4	US-09-949-016-3548	Sequence 3548, Ap
21	47.2	4.7	1750	4	US-09-016-434-831	Sequence 831, App
22	47.2	4.7	1762	2	US-08-742-621-2	Sequence 2, Appli
23	47	4.7	601	4	US-09-949-016-147339	Sequence 147339, S
24	47	4.7	23802	4	US-09-949-016-12107	Sequence 12107, A
25	47	4.7	23803	4	US-09-949-016-15878	Sequence 15878, A
26	46.8	4.7	320	3	US-09-165-264-13	Sequence 13, Appl
27	46.6	4.7	601	4	US-09-949-016-25173	Sequence 25173, A

## ALIGNMENTS

## RESULT 1

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US-09-381-681-2
Sequence 2, Application US/09381681-2
Patent No. 6255472
GENERAL INFORMATION:
APPLICANT: TAKINO, Takashi
APPLICANT: NAKAMURA, Yukeu
TITLE OF INVENTION: HUMAN GENES
FILE REFERENCE: Q55876
CURRENT APPLICATION NUMBER: US/09/
CURRENT FILING DATE: 2000-01-10
EARLIER APPLICATION NUMBER: JPA 9-
EARLIER FILING DATE: 1997-03-26
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 1697
TYPE: DNA
ORGANISM: Human
FEATURE:
NAME/KEY: CDS
LOCATION: (46)..(1338)
US-09-381-681-2

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Query Match	17.6%	Score 176.2	DB 3	Length 1697
Best Local Similarity	98.3%	Pred. No. 6.1e-39		
Matches 178: Conservative	0	Mismatches 3	Indels 0	Gaps 0

Qy	1	ATGCTGACTCATGTGTCGCCGACGCTAGCAGGAGCTGGCAGCATGGGCTCCCCCAGGGGCTAC	60
Db	6	ATGCTGACTCATGTGTCGCCGACGCTAGCAGGAGCTGGCAGCATGGGCTCCCCCAGGGGCTAC	65
Qy	61	GACAGGCTGGGGCTTCTGGATTATAAGACGGAGAGTATCTGATGACCGAGAACTGGCG	120
Db	66	GACAGGCTGGGGGCTTCTGGATTATAAGACGGAGAGTATCTGATGACCGAGAACTGGCG	125
Qy	121	GGTGGCGGCCCTGCAGAGGCTGCTGCAGTCTTGGGATCGTGTCTATGTGGTAGGGTAAAGA	180
Db	126	GGTGGCGGCCCTGCAGAGGCTGCTGCAGTCTTGGGATCGTGTCTATGTGGTAGGGTGGGC	185
Qy	181	G 181	
Db	186	G 186	

## RESULT 2

US-09-191-136-27  
; Sequence 27, Application US/09191136B  
; Patent No. 6214581  
; GENERAL INFORMATION:

Sequence 25174, A  
Sequence 147340,  
Sequence 147341,  
Sequence 14, Appl  
Sequence 15, Appl  
Sequence 11, Appl  
Sequence 11042, A  
Sequence 198409,  
Sequence 13, Appl  
Sequence 12147, A  
Sequence 17361, A  
Sequence 8, Appl  
Sequence 8, Appl  
Sequence 16161, A  
Sequence 198408,  
Sequence 3, Appl  
Sequence 3, Appl  
Sequence 3, Appl  
Sequence 15, Appl



;; PRIOR APPLICATION NUMBER: 60/237,768  
;; PRIOR FILING DATE: 2000-10-03  
;; PRIOR APPLICATION NUMBER: 60/231,498  
;; PRIOR FILING DATE: 2000-09-08  
;; NUMBER OF SEQ ID NOS: 207012  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 12109  
;; LENGTH: 25370  
;; TYPE: DNA  
;; ORGANISM: Human  
US-09-949-016-12109

Query Match 7.9%; Score 78.8; DB 4; Length 25370;

Best Local Similarity 61.9%; Pred. No. 2.4e-11;

Matches 125; Conservative 0; Mismatches 77; Indels 0; Gaps 0;

QY 752 CACACTGCCGACTTCTCTCCAGTGGCTCTCCGCAAAAGGCTTACAGGAG 811  
DB 6224 CCACGTACCGGCCCTTCCACAGATGGGTCTCTGATAAAGGGTTACCAAGAC 6283  
QY 812 CGGACCTGGAACCCAGTTTCCATCATCACCAACTCAAAGGGTTTCCGTCACTCAG 871  
DB 6284 GTCGACACTCTCTGAGAGTGTGTATCATCACCAGTCAAGGGCTTCCCAAC 6343  
QY 872 ATCAAGAGCTTGGAAACCGCTGTGGATGGCGACTTCGTGAAGCCACTCAGGTG 931  
DB 6344 ACCTCGATCTTGGCAGCGGATCTGGATGTCCGCGACTACGTCACTCCAGCCAGGTC 6403  
QY 932 GGGCCCTGATGTTGTCAGG 953  
DB 6404 TGAGTCCCACTTAGCACACGG 6425

## RESULT 6

US-09-949-016-15880  
; Sequence 15880, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 15880

; LENGTH: 25375

; TYPE: DNA

; ORGANISM: Human

US-09-949-016-15880

Query Match

Best Local Similarity 61.9%; Pred. No. 2.4e-11;

Matches 125; Conservative 0; Mismatches 77; Indels 0; Gaps 0;

QY 752 CACACTGCCGACTTCTCTCCAGTGGCTCTCCGCAAAAGGCTTACAGGAG 811  
DB 6224 CCACGTACCGGCCCTTCCACAGATGGGTCTCTGATAAAGGGTTACCAAGAC 6283  
QY 812 CGGACCTGGAACCCAGTTTCCATCATCACCAACTCAAAGGGTTTCCGTCACTCAG 871  
DB 6284 GTCGACACTCTCTGAGAGTGTGTATCATCACCAGTCAAGGGCTTCCCAAC 6343  
QY 872 ATCAAGAGCTTGGAAACCGCTGTGGATGGCGCGACTTCGTGAAGCCACTCAGGTG 931  
DB 6344 ACCTCGATCTTGGCAGCGGATCTGGATGTCCGCGACTACGTCACTCCAGCCAGGTC 6403

QY 932 GGGGCCCTGATGTTGCTGACGG 953  
DB 6404 TGAGTCCCACTTAGCACACGG 6425

## RESULT 7

US-09-949-016-4138

; Sequence 4138, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 4138

; LENGTH: 1946

; TYPE: DNA

; ORGANISM: Human

US-09-949-016-4138

Query Match

Best Local Similarity 7.1%; Score 70.6; DB 4; Length 1946;

Matches 130; Conservative 0; Mismatches 99; Indels 0; Gaps 0;

QY 769 CTTCCCGAGTGGCTCTCTCCGCAAAAGGCTTACAGGAGGGGACCTGGAAACCCCA 828  
DB 165 CTTGGTCTGATGGGTCTCTGATAAAGGGTTACCAAGACGTCGACACCTCCCTGCA 224  
QY 829 GTTTTCATCATCACCAACTCAAAGGGTTTCCGTCACTCAGATCAAGAGCTTGGAAA 888  
DB 225 GAGTCTGTATCACCAGGCTTACAGGAGGGGCTTCCCAACACCTCGATCTTGGGCA 284  
QY 889 CCGGCTGTGGATGGCGGACTTCGTGAAGCCACTCAGTGGGGGCTTGTGCT 948  
DB 285 GCGGATCTGGATGTGCGGACTACGTCACTCCAGCCAGGAGAGACGCTCTTTTGT 344  
QY 949 GACGGGGGGAAGTCTTTTCCGCACTGACACCTGAAACACCCGCAATG 997  
DB 345 GGTCAACCACTGATTTGTGACCCCAACCAAGCGGCGAGACGTCGTGCTG 393

## RESULT 8

US-09-949-016-367

; Sequence 367, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 367

; LENGTH: 1978

Query Match 6.9%; Score 69; DB 1; Length 7218;  
Best Local Similarity 4.7%; Pred.No. 7.7e-09;  
Matches 18; Conservative 225; Mismatches 140; Indels 0; Gaps 0;  
QY 25 AGCAGGAGTGGCAGCAGTGGCTCCAGGGCTACGACAGGCTGGGGCTTCTGGATTA 84  
Db 1417 RRR 1358  
QY 85 TAAGACGGAGAGTATGATGATCAGGAACTGGCGGGTGGCGCCCTGCAGAGCTGCT 144  
Db 1357 RRR 1298  
QY 145 GCAGTTTGGATCGGTCTATGTGTAGGTGTAAGAGAGAGAGCTTTTGGCCAGCTGG 204  
Db 1297 RRR 1238  
QY 205 AGGGCAAGGAGAGTGGGGGTGGGGCTTGGCTCTGGTGGTGAAGTTGAGGGTTG 264  
Db 1237 RRR 1178  
QY 265 GGCTGTTAGGGCTGGAGTGAAGGGGCGAGATTGGGACGGGTTGGGAGAGCTAGC 324  
Db 1177 RRR 1118  
QY 325 GATACAGAGGAGAGCAAGAACTGTGTGTCTGTGTCTGTGTCTGTCTGTCTGTCT 384  
Db 1117 RRR 1058  
QY 385 TTCCAGGCCCCCAGGCCCC 407  
Db 1057 TCCTCGACCTGCAGCAAGCTC 1035

RESULT 10  
US-08-750-134A-6  
Sequence 6, Application US/08750134A  
Patent No. 5985603  
GENERAL INFORMATION:  
APPLICANT: VALERA, SOLEDAD  
APPLICANT: BUELL, GARY  
TITLE OF INVENTION: P2x RECEPTORS (PURINOCSEPTOR FAMILY)  
NUMBER OF SEQUENCES: 11  
CORRESPONDENCE ADDRESS:  
ADDRESSER: NIXON & VANDERHYE P.C.  
STREET: 1100 NORTH GLEBE ROAD  
CITY: ARLINGTON  
STATE: VIRGINIA  
COUNTRY: U.S.A.  
ZIP: 22201-4714  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/750,134A  
FILING DATE: 22-JAN-1997  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: CRAWFORD, ARTHUR C.  
REGISTRATION NUMBER: 25,327  
REFERENCE/DOCKET NUMBER: 1430-116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 816-4006  
TELEFAX: (703) 816-4100  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1997 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA

TYPE: DNA  
ORGANISM: Human  
US-09-949-016-367  
Query Match 6.9%; Score 69; DB 4; Length 1978;  
Best Local Similarity 61.3%; Pred.No. 4.5e-09;  
Matches 111; Conservative 0; Mismatches 70; Indels 0; Gaps 0;  
QY 769 CTTCCCGAGTGGCTCTCTCCGCAAAAGGCTACAGGAGCGGAGCTGGACCCCA 828  
Db 165 CTTGGTCTGATGGTGTCTCTGATAAAGAGGGTTACCAAGAGCTGCACACTCCCTGCA 224  
QY 829 GTTTTCCATCATCACCAAACTCAAGGGGTTTCCGTCACTCAGATCAAGGAGCTTGGAAA 888  
Db 225 GAGTGTGTCATCACCAAGTCAAGGGCTGGCTTCAACACACTCGGATCTTGGGCA 284  
QY 889 CGGGCTGGGAGTGGCGGACTTCTGTGAAGCCACTCAGGTGGGGCCCTGATGTGCT 948  
Db 285 GCGGATCTGGGATGTCCCGACTACGTCTATTCAGGCCAGGAGAGAGCTCTTTTGT 344  
QY 949 G 949  
Db 345 G 345

RESULT 9  
US-08-232-463-14/c  
Sequence 14, Application US/08232463  
Patent No. 5670367  
GENERAL INFORMATION:  
APPLICANT: DORNER, F.  
APPLICANT: SCHEIFLINGER, F.  
APPLICANT: FALKNER, F. G.  
TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS  
NUMBER OF SEQUENCES: 52  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley & Lardner  
STREET: 1800 Diagonal Road, Suite 500  
CITY: Alexandria  
STATE: VA  
COUNTRY: USA  
ZIP: 22313-0299  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/232,463  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/07/935,313  
FILING DATE:  
APPLICATION NUMBER: EP 91 114 300.6  
FILING DATE: 26-AUG-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 30472/114 IMMU  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703)836-9300  
TELEFAX: (703)683-4109  
TELEX: 899149  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 7218 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
CLONE: pTZ9pt-F1s  
US-08-232-463-14



US-08-750-134A-6

Query Match 5.4%; Score 53.6; DB 2; Length 1997;  
Best Local Similarity 62.2%; Pred. No. 8.7e-05;  
Matches 102; Conservative 0; Mismatches 59; Indels 3; Gaps 1;  
QY 769 CTCTCCCGAGTGGGCTCTCTCCGCAAAAGGCTACGAGCGGGACCTGGAAACCCCA 828  
DB 226 CGTCATCGGGTGGGTGTTCTGTGGGAAAGGGCTACGAGAAACGGACTCCGTGGTC-- 283  
QY 829 GTTTTTCATCATCAACCAACTCAAGGGTTTCGGTCACATCAGATCAAGAGCTTCGAAA 888  
DB 284 -AGCTCGTGCAACCAAGCCAAAGTGGCTGTGACCAACACCTCTCAGCTTGGATT 342  
QY 889 CCGGCTGTGGGATGTGGCCGACTTCGTGAAGCCACCTCAGGTGG 932  
DB 343 CCGGATCTGGGAGCTGGCGGACTATGTGATTCAGCTCAGGAGG 386

## RESULT 11

US-09-363-745-6  
; Sequence 6, Application US/09363745  
; Patent No. 6194162  
; GENERAL INFORMATION:  
; APPLICANT: VALERA, SOLEAD  
; APPLICANT: BUELL, GARY  
; TITLE OF INVENTION: P2X RECEPTORS (PURINOCEPTOR FAMILY)  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: NIXON & VANDERHYE P.C.  
; STREET: 1100 NORTH GLEBE ROAD  
; CITY: ARLINGTON  
; STATE: VIRGINIA  
; COUNTRY: U.S.A.  
; ZIP: 22201-4714  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/363,745  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/750,134  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: CRAWFORD, ARTHUR C.  
; REGISTRATION NUMBER: 25,327  
; REFERENCE/DOCKET NUMBER: 1430-116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 816-4006  
; TELEFAX: (703) 816-4100  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1997 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
US-09-363-745-6

Query Match 5.4%; Score 53.6; DB 3; Length 1997;  
Best Local Similarity 62.2%; Pred. No. 8.7e-05;  
Matches 102; Conservative 0; Mismatches 59; Indels 3; Gaps 1;  
QY 769 CTCTCCCGAGTGGGCTCTCTCCGCAAAAGGCTACGAGCGGGACCTGGAAACCCCA 828  
DB 226 CGTCATCGGGTGGGTGTTCTGTGGGAAAGGGCTACGAGAAACGGACTCCGTGGTC-- 283  
QY 829 GTTTTTCATCATCAACCAACTCAAGGGTTTCGGTCACATCAGATCAAGAGCTTCGAAA 888

DB 284 -AGCTCGGTGACAAACCAAGCCAAAGGTGTGGTGTGACCAACACCTCTCAGCTTGGATT 342  
QY 889 CCGGCTGTGGGATGTGGCCGACTTCGTGAAGCCACCTCAGGTGG 932  
DB 343 CCGGATCTGGGAGCTGGCGGACTATGTGATTCAGCTCAGGAGG 386

## RESULT 12

US-09-949-016-15290  
; Sequence 15290, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 15290  
; LENGTH: 27600  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)..(27600)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-15290

Query Match 5.0%; Score 49.8; DB 4; Length 27600;  
Best Local Similarity 59.5%; Pred. No. 0.003;  
Matches 103; Conservative 0; Mismatches 67; Indels 3; Gaps 1;  
QY 776 AGGTGGGCTCTCTCCGCAAAAGGCTACGAGCGGGACCTGGAAACCCAGTTTTC 835  
DB 8995 AGGTGGGCTGTTGTGTGGGAAAGGGCTACGAGAACTGACTCCGTGGTC---AGCTCC 9051  
QY 836 ATCATCACCACAACTCAAAGGGTTTCGGTCACATCAAGAGCTTGGAAACCCGGCTG 895  
DB 9052 GTTACGACCAAGTCAAGGGCGTGGTGTGACCAACACTTCTAAACTTGGATTCCGATC 9111  
QY 896 TGGGATGTGGCGGACTTCGTGAAGCCACCTCAGGTGGGGCCCTGATGTGCT 948  
DB 9112 TGGGATGTGGCGGATTATGTGATACAGCTCAGGTGTGTCTCCCACTGTGTCT 9164

## RESULT 13

US-09-165-264-7  
; Sequence 7, Application US/09165264  
; Patent No. 6197510  
; GENERAL INFORMATION:  
; APPLICANT: Vinayagamoorthy, Thuraiayah  
; TITLE OF INVENTION: Multi-Loci Genomic Analysis  
; FILE REFERENCE: 44747  
; CURRENT APPLICATION NUMBER: US/09/165,264  
; CURRENT FILING DATE: 1998-10-01  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 7  
; LENGTH: 320  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:Primer sequence  
US-09-165-264-7



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Search completed: March 21, 2005, 15:47:15  
Job time : 172.991 secs

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OM nucleic - nucleic search, using sw model

Run on: March 21, 2005, 14:19:42 ; Search time 1610.64 Seconds  
(without alignments)

9953.840 Million cell updates/sec

Title: US-09-820-095B-1

Perfect score: 2693

Sequence: 1 ttgctgactcatgtgccgc.....aaaaaaaaaaaaaaaaaaaaa 2693

Scoring table: IDENTITY NUC

Gapop 10\_0 , Gapext 1.0

Searched: 5544816 seqs, 2976611598 residues

Total number of hits satisfying chosen parameters: 11089632

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.\*

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9: /cgn2\_6/ptodata/1/pubpna/US09A\_PUBCOMB.seq.\*  
10: /cgn2\_6/ptodata/1/pubpna/US09B\_PUBCOMB.seq.\*  
11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq.\*  
12: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq.\*  
13: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq.\*  
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15: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq.\*  
16: /cgn2\_6/ptodata/1/pubpna/US10D\_PUBCOMB.seq.\*  
17: /cgn2\_6/ptodata/1/pubpna/US10E\_PUBCOMB.seq.\*  
18: /cgn2\_6/ptodata/1/pubpna/US10F\_PUBCOMB.seq.\*  
19: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq.\*  
20: /cgn2\_6/ptodata/1/pubpna/US11\_NEW\_PUB.seq.\*  
21: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq.\*  
22: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2693	100.0	2693	10	US-09-820-095-1
2	1592.6	59.1	16449	10	US-09-820-095-3
C 3	567.4	21.1	569	9	US-09-864-761-9190
C 4	377	14.0	577	9	US-09-864-761-9695
5	285.6	10.6	2299	19	US-10-895-225A-54
6	243.6	9.0	1978	17	US-10-172-118-786
7	243.6	9.0	1978	17	US-10-342-887-786
8	243.6	9.0	1978	18	US-10-370-715B-571
9	239.2	8.9	1389	9	US-09-833-082-1
10	239.2	8.9	1750	17	US-10-305-720-831
11	237.6	8.8	1269	18	US-10-128-558-20
					Sequence 1, Appli
					Sequence 3, Appli
					Sequence 9190, Ap
					Sequence 9695, Ap
					Sequence 54, Appli
					Sequence 786, App
					Sequence 786, App
					Sequence 571, App
					Sequence 1, Appli
					Sequence 831, App
					Sequence 20, Appli

12	237.2	8.8	1167	17	US-10-386-414-18	Sequence 18, Appli
13	237.2	8.8	2048	17	US-10-386-414-16	Sequence 16, Appli
14	237.2	8.8	2048	17	US-10-240-425-1468	Sequence 1468, Ap
15	237.2	8.8	2048	19	US-10-482-029-256	Sequence 256, App
16	236.6	8.8	2048	17	US-10-187-659A-4	Sequence 4, Appli
17	233.4	8.7	2633	9	US-09-969-347-225	Sequence 225, App
18	233.4	8.7	2643	17	US-10-352-684A-53	Sequence 53, Appli
19	233.4	8.7	2643	17	US-10-641-643-897	Sequence 897, App
20	233.4	8.7	2643	18	US-10-283-975A-285	Sequence 285, App
21	226	8.4	1956	9	US-09-864-864-331	Sequence 331, App
22	226	8.4	1986	18	US-10-283-975A-239	Sequence 239, App
23	215.4	8.0	1931	17	US-10-452-879-3	Sequence 3, Appli
24	213.2	7.9	1380	15	US-10-345-680-12	Sequence 12, Appli
25	213.2	7.9	1389	15	US-10-345-680-10	Sequence 10, Appli
26	212.6	7.9	1639	11	US-09-764-875-307	Sequence 307, App
27	181.4	6.7	1616	17	US-10-336-472-53	Sequence 53, Appli
28	164	6.1	1583	17	US-10-336-472-51	Sequence 51, Appli
C 29	163	6.1	163	9	US-09-864-761-26100	Sequence 26100, A
C 30	157.4	5.8	159	9	US-09-864-761-25779	Sequence 25779, A
C 31	156.4	5.8	517	16	US-10-029-386-646	Sequence 646, App
32	156	5.8	647	13	US-10-027-632-158909	Sequence 158909,
33	156	5.8	647	17	US-10-027-632-158909	Sequence 158909,
C 34	151	5.6	151	16	US-10-029-386-14351	Sequence 14351, A
35	148.4	5.5	565	9	US-09-864-761-9732	Sequence 9732, Ap
36	148	5.5	185	9	US-09-864-761-26122	Sequence 26122, A
C 37	146.4	5.4	1926	16	US-10-133-013-149	Sequence 149, App
C 38	144.6	5.4	440	9	US-09-864-761-2179	Sequence 2179, Ap
C 39	144.6	5.4	576	9	US-09-864-761-9249	Sequence 9249, Ap
40	140.4	5.2	1422	17	US-10-051-874-41	Sequence 41, Appli
41	131.2	4.9	561	17	US-10-641-643-370	Sequence 370, App
42	129.6	4.8	958	19	US-10-895-225A-38	Sequence 38, Appli
43	125.8	4.7	941	9	US-09-764-847-250	Sequence 250, App
44	125.8	4.7	941	11	US-09-764-875-583	Sequence 583, App
45	125.8	4.7	941	14	US-10-092-154-250	Sequence 250, App

#### ALIGNMENTS

##### RESULT 1

US-09-820-095-1  
; Sequence 1, Application US/09820095  
; Publication No. US2003023368A1  
; GENERAL INFORMATION:  
; APPLICANT: WEI, Ming-Hui et al  
; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED  
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR  
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF  
; FILE REFERENCE: CL001202  
; CURRENT APPLICATION NUMBER: US/09/820,095  
; CURRENT FILING DATE: 2001-03-29  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 2693  
; TYPE: DNA  
; ORGANISM: Human  
; US-09-820-095-1

Query Match 100.0%; Score 2693; DB 10; Length 2693;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2693; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	TTGCTGACTCATGTGCCGACGTAGCAGAGCTGGCAGCATGGCTCCCGAGGGGTAC	60
DB	1	TTGCTGACTCATGTGCCGACGTAGCAGAGCTGGCAGCATGGCTCCCGAGGGGTAC	60
QY	61	GACAGGCTGGGGCTTCTGGATTATAAGACGAGAGAGTGGGCTCTCTCTCGCCAAAAGG	120
DB	61	GACAGGCTGGGGCTTCTGGATTATAAGACGAGAGAGTGGGCTCTCTCTCGCCAAAAGG	120
QY	121	CTACGAGAGCGGAGCTCGAAGCCCGAGTTTTCATCATCACCAAACTCAAGGGTTTC	180

121 CTACAGGAGCGGACCTTGGAAACCCAGTGTTCATCATCAACAAACTCAAAAGGGGTTC 180  
181 CGTCACTCAGATCAAGAGCTTGGAAACCGGCTGTGGGATGTGGCGACTTCGTGAAGCC 240  
181 CGTCACTCAGATCAAGAGCTTGGAAACCGGCTGTGGGATGTGGCGACTTCGTGAAGCC 240  
241 ACCTCAGGAGAGAAAGTGTCTTCTTGTGTGACCAACTTCCTGTGACGCCAGGCCAAGT 300  
241 ACCTCAGGAGAGAAAGTGTCTTCTTGTGTGACCAACTTCCTGTGACGCCAGGCCAAGT 300  
301 TCAGGCGAGATGCCAGAGACAACCGTCTCGTCCACCTGCTGCTAACTGTGCTGAGTGAAGGA 360  
301 TCAGGCGAGATGCCAGAGACAACCGTCTCGTCCACCTGCTGCTAACTGTGCTGAGTGAAGGA 360  
361 CTGCCCCGAGGAGGAGGAGGAGACACACAGCCAGCGGTGTAAACAGGCGCACTGTGTGT 420  
361 CTGCCCCGAGGAGGAGGAGGAGACACACAGCCAGCGGTGTAAACAGGCGCACTGTGTGT 420  
421 GTTCAATGGGACCCACAGGACCTGTGAGATCTGGAGTGTGGTCCCAAGTGGAGTGGCGT 480  
421 GTTCAATGGGACCCACAGGACCTGTGAGATCTGGAGTGTGGTCCCAAGTGGAGTGGCGT 480  
481 TGTGCCCTCGAGGCCCTCGTGGCCAGCCAGCCAGAACTTCACTGTTCATCAAAAACAC 540  
481 TGTGCCCTCGAGGCCCTCGTGGCCAGCCAGCCAGAACTTCACTGTTCATCAAAAACAC 540  
541 AGTCACTTTCAGCAAGTTCAACTTCTTAAGTCCAACTGCTTGGAGACCTGGGACCCAC 600  
541 AGTCACTTTCAGCAAGTTCAACTTCTTAAGTCCAACTGCTTGGAGACCTGGGACCCAC 600  
601 CTATTTAAGCACTGCGCTATGAACCAAACTTCAAGCCCTACTGTGCCGTGTTCGGCAT 660  
601 CTATTTAAGCACTGCGCTATGAACCAAACTTCAAGCCCTACTGTGCCGTGTTCGGCAT 660  
661 TGGGACCTCGTGGCCAGGCTGGAGGACCTTGGAGACCTGGGACCTGGGACCTGGGAC 720  
661 TGGGACCTCGTGGCCAGGCTGGAGGACCTTGGAGGACCTGGGACCTGGGACCTGGGAC 720  
721 TGTAGGCATCAGAGTTCACCTGGGATGTGACCTGGACACCGGAGCTCTGGCTGTGGCC 780  
721 TGTAGGCATCAGAGTTCACCTGGGATGTGACCTGGACACCGGAGCTCTGGCTGTGGCC 780  
781 TCACTACTCTTCCAGCTCGAGGAGAGAGCTACAACTTTCAGGACAGCCACTCACTGGTG 840  
781 TCACTACTCTTCCAGCTCGAGGAGAGAGCTACAACTTTCAGGACAGCCACTCACTGGTG 840  
841 GGAGCAACCGGCTGTGGAGGCCCGCACCTTCTCAAGCTCTATGGAATCCGCTTCGACAT 900  
841 GGAGCAACCGGCTGTGGAGGCCCGCACCTTCTCAAGCTCTATGGAATCCGCTTCGACAT 900  
901 CCTCGTCAACCGGCGAGGAGGAGTTCGGGCTCATCCCAAGCGCTCACACTGGGCAC 960  
901 CCTCGTCAACCGGCGAGGAGGAGTTCGGGCTCATCCCAAGCGCTCACACTGGGCAC 960  
961 CGGGGAGCTTGGCTGGGCGTGTCTACCTTTTCTGTGACCTGCTACTGTGTGTGA 1020  
961 CGGGGAGCTTGGCTGGGCGTGTCTACCTTTTCTGTGACCTGCTACTGTGTGTGA 1020  
1021 TAGAGAGCCATTTCTATCTGGAGGACAAAGTATGAGGAGGAGGAGGAGGAGGAGGAGGAG 1080  
1021 TAGAGAGCCATTTCTATCTGGAGGACAAAGTATGAGGAGGAGGAGGAGGAGGAGGAGGAG 1080  
1081 CGCCAACTCTGTGTGAGGAGGAGTGGCCCTTGTGATCCCAAGCGCTCACACTGGCGAGTGCCT 1140  
1081 CGCCAACTCTGTGTGAGGAGGAGTGGCCCTTGTGATCCCAAGCGCTCACACTGGCGAGTGCCT 1140  
1141 CAGAGCGAGCTCAGCACTGCAACCGGCGCTACTGTGTGTGGAGTTCAGACAGACACAC 1200  
1141 CAGAGCGAGCTCAGCACTGCAACCGGCGCTACTGTGTGTGGAGTTCAGACAGACACAC 1200  
1201 AGGATGGCCCTCTCCAAAGTTCAGACACCCACTTGTGCCAACCCATTCGGGAGGCTGTAGCC 1260  
1201 AGGATGGCCCTCTCTCAAGTTCAGACACCCACTTGTGCCAACCCATTCGGGAGGCTGTAGCC 1260

1261 GTTCCCTGCTGTGAGAGTTCGGGCTGGGAAGGCGCGGGCCCTGCTCGCTGGGGATCTCAA 1320  
1261 GTTCCCTGCTGTGAGAGTTCGGGCTGGGAAGGCGCGGGCCCTGCTCGCTGGGGATCTCAA 1320  
1321 GGATGAGGCCCCAGCATGAGAGATTTGGGGGTAGAATTCACCTTTGAACCCCGAGAGACA 1380  
1321 GGATGAGGCCCCAGCATGAGAGATTTGGGGGTAGAATTCACCTTTGAACCCCGAGAGACA 1380  
1381 GTCCCTCCCTGACTCCACACTTGTGAGGTGCTGCTCAGGAGGACCATAGAAGTCGGCT 1440  
1381 GTCCCTCCCTGACTCCACACTTGTGAGGTGCTGCTCAGGAGGACCATAGAAGTCGGCT 1440  
1441 GTGTTTTCAGAGCGGCGACAGAACTGACCCGCTGGAGACTTGGGAGAGCCCGAGGAGCACT 1500  
1441 GTGTTTTCAGAGCGGCGACAGAACTGACCCGCTGGAGACTTGGGAGAGCCCGAGGAGCACT 1500  
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1741 GGCAGAAAGAGAGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1800  
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1801 CCAGGAGAGTCTTAATCTAGGAAATGGGAGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1860  
1801 CCAGGAGAGTCTTAATCTAGGAAATGGGAGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1860  
1861 CCAGGAGAGGCGGAGCATGTGCTTGGGCGCACACCTGCTTAGTTATAGGAGCCGGC 1920  
1861 CCAGGAGAGGCGGAGCATGTGCTTGGGCGCACACCTGCTTAGTTATAGGAGCCGGC 1920  
1921 TGCTTTCCAGTGTGAGCCCTTTTGCATGAGGAGTCTGGGAGAGAGAGAGAGAGAGAGAGAG 1980  
1921 TGCTTTCCAGTGTGAGCCCTTTTGCATGAGGAGTCTGGGAGAGAGAGAGAGAGAGAGAGAG 1980  
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1981 GGCTAAGTTGTGATCATTTGGGTTCTTCAGGACCTTCTATATATATATATATATATATATATAT 2040  
2041 CAGCCCAACCTTGGAAATCTTTCCTCAGGCTTCTGAGAGCCCTGGGGGTGGAGGCT 2100  
2041 CAGCCCAACCTTGGAAATCTTTCCTCAGGCTTCTTCTCAGAGCCCTGGGGGTGGAGGCT 2100  
2101 GTGGGAGGCTGTACATCTGAAATTCACCTTCAAGTTCATACCTTAGGAGCTGTCTGG 2160  
2101 GTGGGAGGCTGTGTACATCTGAAATTCACCTTCAAGTTCATACCTTAGGAGCTGTCTGG 2160  
2161 GCAGTGTCTCAGGAGGAGCCCTGCTGCTGATCCAGGCTGGATGGATGGATGGATGGATGGATGG 2220  
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2221 TGGTTCAAAACACACACCGAGATCTCCTCAGGCTGGCAGGTTTTCAGCTGGAAT 2280  
2221 TGGTTCAAAACACACACCGAGATCTCCTCAGGCTGGCAGGTTTTCAGCTGGAAT 2280  
2281 CTCCTCTTGGTCCAGGCGGAGGAGGAACTTCAAGTGTCCACCCAGGAGGAGGAGGAGGAGGAGG 2340  
2281 CTCCTCTTGGTCCAGGCGGAGGAGGAACTTCAAGTGTCCACCCAGGAGGAGGAGGAGGAGGAGG 2340

QY 2341 GCTGCTTTCCACTGTGGGTACCTGGTGTATCAGGCGCAAGCTGTGGAGGGCCAGGGGTGGGG 2400  
DB 2341 GCTGCTTTCCACTGTGGGTACCTGGTGTATCAGGCGCAAGCTGTGGAGGGCCAGGGGTGGGG 2400  
QY 2401 CTGAGACTGGGCTGACATCTAGAAATCACCTGCCACCTGGAGGCTCAGTAAATGCTGGG 2460  
DB 2401 CTGAGACTGGGCTGACATCTAGAAATCACCTGCCACCTGGAGGCTCAGTAAATGCTGGG 2460  
QY 2461 GTCCCTGCTGCTCTCAATCTCCAGAGCCATGTCTCAGGAGGTGGGCTCTGAAGGGGG 2520  
DB 2461 GTCCCTGCTGCTCTCAATCTCCAGAGCCATGTCTCAGGAGGTGGGCTCTGAAGGGGG 2520  
QY 2521 AAGGTGGAGAGAGAGGGCCCTCAGGCTGGGTATCCAGAGGGGGCAGTGCACCTGAT 2580  
DB 2521 AAGGTGGAGAGAGAGGGCCCTCAGGCTGGGTATCCAGAGGGGGCAGTGCACCTGAT 2580  
QY 2581 TCTCCTTTGGGGCCAGAGGAAGCTGATGTCATGGCTGGACAAAGTCACGGAGTAAGCCA 2640  
DB 2581 TCTCCTTTGGGGCCAGAGGAAGCTGATGTCATGGCTGGACAAAGTCACGGAGTAAGCCA 2640  
QY 2641 GCAAGGCCACCAAA 2693  
DB 2641 GCAAGGCCACCAAA 2693

## RESULT 2

US-09-820-095-3  
; Sequence 3, Application US/09820095  
; Publication No. US2003023368A1  
; GENERAL INFORMATION:  
; APPLICANT: WEI, Ming-Hui et al  
; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED  
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR  
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF  
; FILE REFERENCE: CL001202  
; CURRENT APPLICATION NUMBER: US/09/820, 095  
; CURRENT FILING DATE: 2001-03-29  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 16449  
; TYPE: DNA  
; ORGANISM: Human  
US-09-820-095-3

Query Match 59.1%; Score 1592.6; DB 10; Length 16449;  
Best Local Similarity 99.7%; Pred. No. 0;  
Matches 1595; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
QY 1053 ATGAGGAGGCGAAGGCGCCGAAAGCAACCGCCAACTCTGTGTGGAGGAGCTGGCCCTTG 1112  
DB 13246 ATCTGAGGCGAAGGCGCCGAAAGCAACCGCCAACTCTGTGTGGAGGAGCTGGCCCTTG 13305  
QY 1113 CATCCCAAGCCCACTGAGGCGAGTGTCTAGACGAGAGCTCAGCACTGTGCACCCACGCGCA 1172  
DB 13306 CATCCCAAGCCCACTGAGGCGAGTGTCTAGACGAGAGCTCAGCACTGTGCACCCACGCGCA 13365  
QY 1173 CTGCTGCTGGAGTCTAGACACACACACAGGATGGCCCTGTCCAAGTCTTGACACCCACT 1232  
DB 13366 CTGCTGCTGGAGTCTAGACACACACACAGGATGGCCCTGTCCAAGTCTTGACACCCACT 13425  
QY 1233 TGCACCAACCAATTCGGGAGGCTGTAGCCGCTTCCCTGCTGTGTGAGAGTTGGGGGCTGGGA 1292  
DB 13426 TGCACCAACCAATTCGGGAGGCTGTAGCCGCTTCCCTGCTGTGTGAGAGTTGGGGGCTGGGA 13485  
QY 1293 AGGCGGGGCGCTGCTGCTGGGATCTCAAGATGAGGCCCCAGCATGAGAGATTGGGGGTA 1352  
DB 13486 AGGCGGGGCGCTGCTGCTGGGATCTCAAGATGAGGCCCCAGCATGAGAGATTGGGGGTA 13545  
QY 1353 GAATTCACCCCTTGAAACCCAGCAGACAGTCCCTCCCTGACTCCCACTTGTGTAGGTG 1412  
DB 13546 GAATTCACCCCTTGAAACCCAGCAGACAGTCCCTCCCTGACTCCCACTTGTGTAGGTG 13605

QY 1413 CTGCTCTCAGGAGCCATAGAACTCGGCTGTGTTTGGAGCGGCGACAGAACTGACCCGT 1472  
DB 13606 CTGCTCTCAGGAGCCATAGAACTCGGCTGTGTTTGGAGCGGCGACAGAACTGACCCGT 13665  
QY 1473 GGAGACTGGGAGAGCCACAGCAGCAGCTGTATTGCAAGGCTCCGACTGCAATGTGGCAGGG 1532  
DB 13666 GGAGACTGGGAGAGCCACAGCAGCAGCTGTATTGCAAGGCTCCGACTGCAATGTGGCAGGG 13725  
QY 1533 GCTCTCTGCTGCGTCTGGGCTGGAGGTCTCTCTCCAGTGTCTCTGCCAGGTTCCTA 1592  
DB 13726 GCTCTCTGCTGCGTCTGGGCTGGAGGTCTCTCTCCAGTGTCTCTGCCAGGTTCCTA 13785  
QY 1593 GCAGAGTATGCTTACCACTGTTCAGCAGACAGACCTCTCTGCTGCTGGGTCTGGGCGCTC 1652  
DB 13786 GCAGAGTATGCTTACCACTGTTCAGCAGACAGACCTCTCTGCTGCTGGGTCTGGGCGCTC 13845  
QY 1653 CTCCTCCATCTGCACCCCATCATAGTAGAGACCCACCTCCCTCCATCGTCTCTACATGG 1712  
DB 13846 CTCCTCCATCTGCACCCCATCATAGTAGAGACCCACCTCCCTCCATCGTCTCTACATGG 13905  
QY 1713 GGCTGTGCTGAGCTGGAGCCAAAGGCAAGGCAAGAGAGAGTGTATGGGGAGGGGAT 1772  
DB 13906 GGCTGTGCTGAGCTGGAGCCAAAGGCAAGGCAAGAGAGAGTGTATGGGGAGGGGAT 13965  
QY 1773 GTTTCAGCTTCTCTGCTGTGTATGCTCCCGAGAGAGTCTTAATCTAGGGAATGGGGTGG 1832  
DB 13966 GTTTCAGCTTCTCTGCTGTGTATGCTCCCGAGAGAGTCTTAATCTAGGGAATGGGGTGG 14025  
QY 1833 AGTAGGAGATTAATCCACCTCCCTATCCCGAGGCAAGGCGAGAGATGTCTCTGGGCC 1892  
DB 14026 AGTAGGAGATTAATCCACCTCCCTATCCCGAGGCAAGGCGAGAGATGTCTCTGGGCC 14085  
QY 1893 CACACCTGCTAGTATTATGAGGACCGGCTGCTTTCCAGTGTAGGCTTTTGGCATGGAG 1952  
DB 14086 CACACCTGCTAGTATTATGAGGACCGGCTGCTTTCCAGTGTAGGCTTTTGGCATGGAG 14145  
QY 1953 GTCTGGAGAGAGAGAGAGGCGGAGGCTTAAGTTGTGTATCATTTGGTCTTCTCAGGA 2012  
DB 14146 GTCTGGAGAGAGAGAGAGGCGGAGGCTTAAGTTGTGTATCATTTGGTCTTCTCAGGA 14205  
QY 2013 CTTTCTATATCCCTCTCGGTAAACCCCGAGCCCAACCTTGGAACTTTTCTCCAGGC 2072  
DB 14206 CTTTCTATATCCCTCTCGGTAAACCCCGAGCCCAACCTTGGAACTTTTCTCCAGGC 14265  
QY 2073 TTCTCTGAGAGCCTGGGGGTGGAGGCTGTGGAGGCTGTACATCTGAAATTCACCTTCAG 2132  
DB 14266 TTCTCTGAGAGCCTGGGGGTGGAGGCTGTGGAGGCTGTACATCTGAAATTCACCTTCAG 14325  
QY 2133 TCCAGTCTATACCTAGGAAGCTGTCTGGGAGCTGTCTGAGGAGGCGCTTGGTCTGTATC 2192  
DB 14326 TCCAGTCTATACCTAGGAAGCTGTCTGGGAGCTGTCTGAGGAGGCGCTTGGTCTGTATC 14385  
QY 2193 CAGGCTGATGAGGCTGGAGGAATGTTTCCAAACACACACACCGAGATCTCCCTC 2252  
DB 14386 CAGGCTGATGAGGCTGGAGGAATGTTTCCAAACACACACACCGAGATCTCCCTC 14445  
QY 2253 AGGCTGGCAGGTTTGTGAGCTGGAATCTCTCTTGTGTTCCAGGCGGCGAGGGAAT 2312  
DB 14446 AGGCTGGCAGGTTTGTGAGCTGGAATCTCTCTTGTGTTCCAGGCGGCGAGGGAAT 14505  
QY 2313 CTAAGTGTCCACCCAGGAGGCAAGGGCTGTCTTCCATGTGGGTACTGTGTGATCAG 2372  
DB 14506 CTAAGTGTCCACCCAGGAGGCAAGGGCTGTCTTCCATGTGGGTACTGTGTGATCAG 14565  
QY 2373 GGCAGCTGTGAGGGCGAGGGGTGGGCTGAGACTGGGCTGACATCTAGAAATCACCTGC 2432  
DB 14566 GGCAGCTGTGAGGGCGAGGGGTGGGCTGAGACTGGGCTGACATCTAGAAATCACCTGC 14625  
QY 2433 CACTGTGAGCTCAGTAAATGCTGGGCTCCCTGCTGCTCTCAATCTCCAGAGCCATG 2492  
DB 14626 CACTGTGAGCTCAGTAAATGCTGGGCTCCCTGCTGCTCTCAATCTCCAGAGCCATG 14685  
QY 2493 TCCATGGGAGGTGGGCTCTGTAAGGGCGAAGGTGGGAGAGACAGGGGCCCTTGAGGCCCTGGG 2552

Db 14686 TCATCGGAGGTGGCTCTGAAGGCGAAGTGGGAGAGCAGGGCCCTGAGGCTGGG 14745  
QY 2553 TATCCAAAGAGGGGCACTGTCCTTGGGGGCCAGAGAAAGCTGATGTCTAT 2612  
Db 14746 TATCCAAAGAGGGGCACTGTCCTTGGGGGCCAGAGAAAGCTGATGTCTAT 14805  
QY 2613 GCGTGACAAAGTACAGGAGTAAAGCCAGCAAGCCACC 2651  
Db 14806 GGCTGACAAAGTACAGGAGTAAAGCCAGCAAGCCACC 14844

RESULT 3  
US-09-864-761-9190/c  
; Sequence 9190, Application US/09864761  
; Patent No. US20020048763A1  
; GENERAL INFORMATION:  
; APPLICANT: Penn, Sharron G.  
; APPLICANT: Rank, David R.  
; APPLICANT: Hanzel, David K.  
; APPLICANT: Chen, Wensheng  
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
; FILE REFERENCE: Aemica-X-1  
; CURRENT APPLICATION NUMBER: US/09/864,761  
; CURRENT FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: US 60/180,312  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 09/632,366  
; PRIOR FILING DATE: 2000-08-03  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 09/608,408  
; PRIOR FILING DATE: 2000-06-30  
; PRIOR APPLICATION NUMBER: US 09/774,203  
; PRIOR FILING DATE: 2001-01-29  
; NUMBER OF SEQ ID NOS: 49117  
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1  
; SEQ ID NO 9190  
; LENGTH: 569  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: MAP TO AC002472.3  
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.6  
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.3  
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 2.2

; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2  
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 3  
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 2.4  
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2.4  
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 3.4  
US-09-864-761-9190  
Query Match 21.1%; Score 567.4; DB 9; Length 569;  
Best Local Similarity 99.8%; Pred. No. 1.5e-147; Indels 0; Gaps 0;  
Matches 568; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1497 ACCTGTATTGACAGGCTCCGACTGTCATGTGGCAGAGGGGCTCTCTGCTGCGCTCTGGGCTGGA 1556  
Db 569 ACCTGTATTGACAGGCTCCGACTGTCATGTGGCAGAGGGGCTCTCTGCTGCGCTCTGGGCTGGA 510  
QY 1557 GGTCTCTCTCCAGAGTGTCTGTCCCGAGTGTCTTACAGAGAGGTATGCTTACAGTGTCTC 1616  
Db 509 GGTCTCTCTCCAGAGTGTCTGTCCCGAGTGTCTTACAGAGAGGTATGCTTACAGTGTCTC 450  
QY 1617 AGCAGAGACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1676  
Db 449 AGCAGAGACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 390  
QY 1677 AGGTAGAGACCCCAACCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT 1736  
Db 389 AGGTAGAGACCCCAACCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT 330  
QY 1737 GCAAGGCGAAGAGAGAGTGTGGGGAGAGGGGAGTGTGGGGAGAGGGGAGTGTGGGGAGAG 1796  
Db 329 GCAAGGCGAAGAGAGAGTGTGGGGAGAGGGGAGTGTGGGGAGAGGGGAGTGTGGGGAGAG 270  
QY 1797 TGCCCCCAGGAGAGTCTTAATCTTAGGGAATGGGGTGGAGTGGAGTGGAGTAAATCACTCCCT 1856  
Db 269 TGCCCCCAGGAGAGTCTTAATCTTAGGGAATGGGGTGGAGTGGAGTGGAGTAAATCACTCCCT 210  
QY 1857 ATCCCCCAGGAGAGAGTGTCTTGGGGCCCACTCTTATATCCCTCTCTCGGTAAAC 1916  
Db 209 ATCCCCCAGGAGAGAGTGTCTTGGGGCCCACTCTTATATCCCTCTCTCGGTAAAC 150  
QY 1917 CGGCTGCTTCCAGTGGTAGCCCTTTTCCCATGGAGGTCTGGGAGAGAGAGAGAGGGGG 1976  
Db 149 CGGCTGCTTCCAGTGGTAGCCCTTTTCCCATGGAGGTCTGGGAGAGAGAGAGAGGGGG 90  
QY 1977 GCAGGGCTAAGTTGGTGTATCATTTGGGTTCTTCAGGACCTTCTATATCCCTCTCGGTAAAC 2036  
Db 89 GCAGGGCTAAGTTGGTGTATCATTTGGGTTCTTCAGGACCTTCTATATCCCTCTCGGTAAAC 30  
QY 2037 CCCCCAGGCCCAACCTTTGGAAATCTTTCC 2065  
Db 29 CCCCCAGGCCCAACCTTTGGAAATCTTTCC 1  
RESULT 4  
US-09-864-761-9695/c  
; Sequence 9695, Application US/09864761  
; Patent No. US20020048763A1  
; GENERAL INFORMATION:  
; APPLICANT: Penn, Sharron G.  
; APPLICANT: Rank, David R.  
; APPLICANT: Hanzel, David K.  
; APPLICANT: Chen, Wensheng  
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
; FILE REFERENCE: Aemica-X-1  
; CURRENT APPLICATION NUMBER: US/09/864,761  
; CURRENT FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: US 60/180,312  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 09/632,366  
; PRIOR FILING DATE: 2000-08-03  
; PRIOR APPLICATION NUMBER: GB 24263.6



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; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
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; PRIOR APPLICATION NUMBER: PCT/US01/00663
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; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
SEQ ID NO 9695
LENGTH: 577
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC002472.3
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 15
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 47
OTHER INFORMATION: EXPRESSED IN PETAL LIVER, SIGNAL = 17
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.2
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 59
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 3.1
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 25
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 22
US-09-864-761-9695

Query Match          14.0%; Score 377; DB 9; Length 577;
Best Local Similarity 100.0%; Pred. No. 1.9e-94;
Matches 377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY    2275   GGAATTCCTCTTGTTGGTCCAGGCGGGCAGGGAAATTCTTAAGTGTCCACCCCAGGAGG 2334
DB    577   GGAATTCCTCTTGTTGGTCCAGGCGGGCAGGGAAATTCTTAAGTGTCCACCCCAGGAGG 518

QY    2335   CAAGGGGCTGCTTTTCCACTCTGGGTACTCTGGTAGTCAGGCCCAAGCTCTGGAGGCACCAGG 2394
DB    517   CAAGGGGCTGCTTTTCCACTCTGGGTACTCTGGTAGTCAGGCCCAAGCTCTGGAGGCACCAGG 458

QY    2395   GTGGGGCTGAGA CTGGGCTGACA TCTAGAA TCAC CTCGCC ACTTGGAG CCTCAGTAAA ATG 2454
DB    457   GTGGGGCTGAGA CTGGGCTGACA TCTAGAA TCAC CTCGCC ACTTGGAG CCTCAGTAAA ATG 398

QY    2455   CCTGGGGTCCCTGCTGCTCTCTCAATCTCCAGAGCATGTCCATGSGGAGGTGGGCTCTGA 2514
DB    397   CCTGGGGTCCCTGCTGCTCTCTCAATCTCCAGAGCATGTCCATGSGGAGGTGGGCTCTGA 338

QY    2515   AGGCGCAAGGTGGGAGACAGGGGCCCTCTAGGCCTGGGTATCCCAAGAGGGGCA CGTGCA 2574
DB    337   AGGCGCAAGGTGGGAGACAGGGGCCCTCTAGGCCTGGGTATCCCAAGAGGGGCA CGTGCA 278

QY    2575   CTTGATTCTCTTGGGGGCCAGAGGAAGCTGATCTATGCTGTGACCAAAGTCA CGGAGTA 2634
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; PRIOR FILING DATE: 2002-06-14

; NUMBER OF SEQ ID NOS: 2699

; SEQ ID NO 786

; LENGTH: 1978

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-342-887-786

Query Match

Best Local Similarity 9.0%; Score 243.6; DB 17; Length 1978;

Mismatches 501; Conservative 0; Mismatches 329; Indels 30; Gaps 3;

QY 98 TGGGCTCTCTCGCCAAAGAGCTACAGAGAGCGGACCTGGAACCCAGTTTCCATC 157  
DB 175 TGGGCTCTCTCGCCAAAGAGGTTTACCAAGACGTCGACACCTCCCTGCGAGTGTCTGC 234  
QY 158 ATCAACAACTCAAGGGGTTTCCGCTCACTCAGATCAAGGAGCTTGGAAACCGGCTGTGG 217  
DB 235 ATCAACAAAGTCAGGGCGTGGCTTTCACCAACACTCGGATCTTGGGAGCGGATCTGG 294  
QY 218 GATGTGGCGCACTTCGTGAAGCACTCAGGAGAGAACGTGTCTTCTTGTGTGACCAAC 277  
DB 295 GATGTGGCGCACTTCGTGAAGCACTCAGGAGAGAACGTGTCTTCTTGTGTGACCAAC 354  
QY 278 TTCCTTGTGACCGCCAGCCCAAGTTCAAGGCGAGATGCCAGAGACCCGTCCTCCACTG 337  
DB 355 CTGATTTGTGACCCCAACAGCGGCGAGAACGTCTTCTTGTGTGACCAAC 414  
QY 338 GCTAACTGCTGCGTCCAGGAGACTGCCCGGAGGAGGAGGACACACAGCCACGCT 397  
DB 415 GCGGCGTGTCTCAAGGACAGGACTGCCAGCTGTGGGAGAGCGGTTACAGCTGGAACGGA 474  
QY 398 GTAAACAAAGCGCAGTGTGTGGTG---TTCAATGGGACCCACAGGACCTGTGAGATCTGG 454  
DB 475 GTGAAGACCGGCGCTGCTGCGGAGAGGAACTTGGCCAGGGGCACTGTGAGATCTTT 534  
QY 455 AGTTGTGCGCCAGTGGAGAGTGGCGTTGTGCGCTCGAGGCCCTGTGCGCCAGGCCAG 514  
DB 535 GCCTGTGCGCCAGTGGAGACAGCTCCAGCGCGAGAGGACCAATCTCTGAAGGAGGCGGAA 594  
QY 515 AACTTACACTGTTTCATCAAAACACAGTCACCTTTCAGCAAGTTCACCTTCTTAAGTCC 574  
DB 595 GACTTACACATTTTCATAAAGAACACATCCGTTTCCCAAAATCACTTCTCCAAAC 654  
QY 575 AATGCTTGGAGACCTGGGACCCCACTATTTTAAGCACTGCCGCTATGAACCAATTC 634  
DB 655 AATGTGATGGACGTCAGGACAGATCTTCTGTAATCATGCACTTTGGCCCCAAG--- 711  
QY 635 AGCCCTTACTGTCCGCTGTTCCGCAATGGGAGACCTCGTGCCCAAGGCTGGAGGACCTTC 694  
DB 712 AACCACTACTGCGCCCATCTTCCGACTGGGCTCCATCGTCCGCTGGGCGGAGCGACTTC 771  
QY 695 GAGGACCTGGCGTTCGTTGGGCTCTGAGGCATCAGAGTTCACCTGGGATGTGACCTG 754  
DB 772 CAGGATATAGCCCTGCGAGTGGCGGTGATGAGAAATTAATTTGAATGGAATCTGTGATCTT 831  
QY 755 GACACCGGGAATCTCTGGCTGTGGCTCACTACTCTTCCAGCTGCGAGGAGAA--- 809  
DB 832 GATAAGCTGCTCTGAGTGCCACCTCACTATTTCTTTAGCGGCTGGACCAATAACTT 891  
QY 810 -----GCTACAACTTTCAGGACAGCCACTCACTGTGGGAGCAACCG 850  
DB 892 TCAAAAGTCTGTCTCTCGGGTACAACTTCAGATTTGCGAGATATACCGAGACGAGCC 951  
QY 851 GGTGTGGAGGCGGCGACCTGTCTCAAGCTCTATGGAATCCGCTTGCATCTCTCTCACC 910  
DB 952 GGGGTGGAGTTCGCGACCCCTGATGAAAGCTTACGGGATCCGCTTGTGACGTGATGGTGAAC 1011  
QY 911 GGGCAGGAGGAGGAGTTCGG 930  
DB 1012 GGCAGGGTGTCTTCTCTG 1031

RESULT 8

US-10-370-715B-571

; Sequence 571, Application US/10370715B

; Publication No. US20040258678A1

; GENERAL INFORMATION:

; Patin Docket Preview

; APPLICANT: BODARY, SARAH C.

; APPLICANT: CLARK, HILLARY

; APPLICANT: BRISDELL, HUNTE

; APPLICANT: JACKMAN, JANET

; APPLICANT: SCHOENFELD, JILL R.

; APPLICANT: WILLIAMS, P. MICKEY

; APPLICANT: WOOD, WILLIAM I.

; APPLICANT: WU, THOMAS D.

; TITLE OF INVENTION: Compositions and Methods for the Treatment of Immune  
Related Diseases

; FILE REFERENCE: P1948R1-US

; CURRENT APPLICATION NUMBER: US/10/370,715B

; CURRENT FILING DATE: 2003-02-21

; NUMBER OF SEQ ID NOS: 742

; SEQ ID NO 571

; LENGTH: 1978

; TYPE: DNA

; ORGANISM: Homo sapien

US-10-370-715B-571

Query Match

Best Local Similarity 9.0%; Score 243.6; DB 18; Length 1978;

Mismatches 501; Conservative 0; Mismatches 329; Indels 30; Gaps 3;

QY 98 TGGGCTCTCTCGCCAAAGAGCTACAGGAGCGGACCTGGAACCCAGTTTCCATC 157  
DB 175 TGGGCTCTCTCGCCAAAGAGGTTTACCAAGACGTCGACACCTCCCTGCGAGTGTCTGC 234  
QY 158 ATCAACAACTCAAGGGGTTTCCGCTCACTCAGATCAAGGAGCTTGGAAACCGGCTGTGG 217  
DB 235 ATCAACAAAGTCAGGGCGTGGCGTTTACCAACACTCGGATCTTGGGAGCGGATCTGG 294  
QY 218 GATGTGGCGCACTTCGTGAAGCACTCAGGAGAGAACGTGTCTTCTTGTGTGACCAAC 277  
DB 295 GATGTGGCGCACTTCGTGAAGCACTCAGGAGAGAACGTGTCTTCTTGTGTGACCAAC 354  
QY 278 TTCCTTGTGACCGCCAGCCCAAGTTCAAGGCGAGATGCCAGAGACCCGTCCTCCACTG 337  
DB 355 CTGATTTGTGACCCCAACAGCGGCGAGAACGTCTTCTGCTGAGAAATGAAGGCAATTCCTGAT 414  
QY 338 GCTAACTGCTGGTTCAGGAGACTGCCCGGAGGAGGAGGAGGACACACAGCCACGCT 397  
DB 415 GCGGCGTGTCTCCAGGACAGGACTGCCACGCTGGGGAAGCGGTTACAGCTGGAACGGA 474  
QY 398 GTAAACAAAGCGCAGTGTGTGGTG---TTCAATGGGACCCACAGGACCTGTGAGATCTGG 454  
DB 475 GTGAAGACCGGCGCTGCTGCGGAGAGGAACTTGGCCAGGGGCACTGTGAGATCTTT 534  
QY 455 AGTTGTGCGCCAGTGGAGAGTGGCGTTGTGCGCTCGAGGCCCTGTGCGCCAGGCCAG 514  
DB 535 GCCTGTGCGCCAGTGGAGACAGCTCCAGCGCGAGGAGGCCATTCCTGAAGGAGGCGGAA 594  
QY 515 AACTTACACTGTTTCATCAAAACACAGTCACCTTTCAGCAAGTTCACCTTCTTAAGTCC 574  
DB 595 GACTTACACATTTTCATAAAGAACACATCCGTTTCCCAAAATCACTTCTCCAAAC 654  
QY 575 AATGCTTGGAGACCTGGGACCCCACTATTTTAAGCACTGCCGCTATGAACCAATTC 634  
DB 655 AATGTGATGGACGTCAGGACAGATCTTCTGTAATCATGCACTTTGGCCCCAAG--- 711  
QY 635 AGCCCTTACTGTCCGCTGTTCCGCAATGGGAGACCTCGTGCCCAAGGCTGGAGGACCTTC 694  
DB 712 AACCACTACTGCGCCCATCTTCCGACTGGGCTCCATCGTCCGCTGGGCGGAGCGACTTC 771  
QY 695 GAGGACCTGGCGTTCGTTGGGCTCTGAGGCATCAGAGTTCACCTGGGATGTGACCTG 754  
DB 772 CAGGATATAGCCCTGCGAGTGGCGGTGATGAGAAATTAATTTGAATGGAATCTGTGATCTT 831

QY 755 GACACGGGAGCTCTGGCTGCTGGCTCTACTCTCTCCAGCTGCAGGAGA-- 809  
DB 832 GATAAAGCTGCTCTGAGTGCCACCTCTACTATCTTTAGCGCTGGACATTAACCTT 891  
QY 810 -----GCTACAACTTCAGGACAGCCCACTCACTGTGGGAGCAACCG 850  
DB 892 TCAAAAGTCTGTCTCTCCGGGTACAACTTCAGATTTGGCCAGATATTAACGAGACGAGCC 951  
QY 851 GGTGTGGAGCGCGGACCTCTCTCAAGCTCTATGGAATCGGTTGACATCTCTGTCAAC 910  
DB 952 GGGGTGAGTTCCGACCGCTGATGAAGCTTACGGGATCCGCTTTGACGTGATGGTGAAC 1011  
QY 911 GGGCAGGAGGGAAGTTCCG 930  
DB 1012 GGCAGGGTCTTTCTTCTG 1031

## RESULT 9

US-09-833-082-1  
; Sequence 1, Application US/09833082  
; Patent No. US20020151480A1  
; GENERAL INFORMATION:  
; APPLICANT: Chun, Miyoung  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING  
; FILE REFERENCE: MNI-227  
; CURRENT APPLICATION NUMBER: US/09/833,082  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 1389  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
US-09-833-082-1

Query Match 8.9%; Score 239.2; DB 9; Length 1389;  
Best Local Similarity 56.3%; Pred. No. 7.3e-56;  
Matches 529; Conservative 0; Mismatches 378; Indels 33; Gaps 3;  
QY 152 TCATCATCAACAACTCAAGGGTTTCGGTCACTCAGATCAAGAGCTTCGAACCGG 211  
DB 214 TCCGTTACCAAGGTCAAGGCGTGGTGTGACCAACACTTCTAAACTTGGATTCCGG 273  
QY 212 CTGTGGGATGCGCGACTTCTGTGAGCCACTCTCAGGGAGAGCTGTCTTCTTGTG 271  
DB 274 ATCTGGGATGTGGCGGATTATGTGATACCACTCAGGAGGAAACTTCCCTCTTCTGTCATG 333  
QY 272 ACCAACTTCTTGTGACGCGCAGCCCAAGTTTCAGGGCAGATGCCAGAGCACCGCTCCGTC 331  
DB 334 ACCAAGTGATCTCTACCATGAACACAGACACAGGCGCTGTGCCCGAGATTCTC--CAGAT 390  
QY 332 CCAGTGGCTAACTGTGTGGTTCGACGAGGACTGCCCGGAAGGGAGGAGGACACACAGC 391  
DB 391 GCGACCACTGTGTGTAATCAGATGCCAGCTGTACTGCGGCTCTGCCGCGCACCCACAGC 450  
QY 392 CAGGTGTAAACAGGCGCAGTGTGTGTGTGTTCAATGGGACCCACAGGACCTGTGATGC 451  
DB 451 AACCGAGTCTCAACAGGCGAGGTGCGTAGCTTTCAACAGGCTCCGTCAAGACGTGTGAGGTG 510  
QY 452 TCGAGTTGGTCCCACTGAGAGAGTGC---GTTGTGCCCTTCGAGGCGCCCTGCTGCGCCAC 508  
DB 511 GCGGCTGTGTCCCGTGGAGGATGACACACAGTGCACCACTCTTTTAAAGGCT 570  
QY 509 GCCAGAACTTCACACTGTTTCATAAACAACAGTCACTTCAGCAAGTTCACTTCTCT 568  
DB 571 GCAGAAAATCTTCACTCTTTTGGTTAAGAACAAACATCTGGTATCCCAAAATTAATTTTCAGC 630  
QY 569 AGTCCATGCTTGGAGACCTGGGACCCCACTATTTTAAAGCACTGCGCTATGACCA 628  
DB 631 AAGAGGAATATCTTCCCAACATACCACTACTTACCTCAAGTGTGTCATGTTATGATGCT 690

QY 629 CAATTCAGCCCTACTGTCTCCGTGTTCCGATTTGGGGACCTCGTGGCCAAAGCTGGAGGG 688  
DB 691 AAAACAGATCCCTCTTGCCCATATTCGTCTTGGCAAAATAGTGGAGAACCGAGGACAC 750  
QY 689 ACCTTCGAGGACCTGGCGTTGCTGGGTGGCTCTGTAGGATCAGAGTTCACTGGGATTTG 748  
DB 751 AGTTTCCAGGACATGGCCGTGGAGGGAGGCATCATGGGCATCCAGGTCAACTGGGACTGC 810  
QY 749 GACCTGGACACCGGGAATCTGGCTGCTGGCTCACTACTCTCTCCAGTCCAGCTGCAGAGA-- 806  
DB 811 AACCTGGACAGAGCGCTCTCCCTCTGTGTCAGGTACTCTTCCGCGCTTCGATACA 870  
QY 807 -----AGAGCTACAACTTCAGGACAGCCCACTCACTGGTGG 841  
DB 871 CGGAGAGTTGAGCAACAGTATCTCTGCTACATTTTCAGGTTTGGCCAAAGTACTACAGA 930  
QY 842 GAGCAACCGGGTGTGGAGCCCGCACCTGTCTCAAGCTCTATGGAATCGCTTCGACATC 901  
DB 931 GACCTGGCTGGCAACGACGACGCGCTCATCAAGGCGCTATGGCATCCGCTTCGACATC 990  
QY 902 CTCGTACCGGCGAGGAGGAAAGTTCCGGCTCATCCCGCGCGTCACTGCGGCACC 961  
DB 991 ATTGTGTTTGGGAGAGGAGGAAATTTGACATCATCCCCACTATGATCAACATCGGCTCT 1050  
QY 962 GGGGAGCTTGGCTGGGCTGTGTCACTTTTCTGTGACCTGTCTACTGTGTATGTGGAT 1021  
DB 1051 GGCCTGGCACTGCTAGGCATGGCAGCGCTGTGTGTGACATCATAGTCTCTACTGTCATG 1110  
QY 1022 AGAAGAGCCATTTCTACTCTGGAGGACAAAGTATGAGGAGG 1061  
DB 1111 AAGAAAGACTCTACTATCTGGGAGAGAAATATAAATATG 1150

## RESULT 10

US-10-305-720-831  
; Sequence 831, Application US/10305720  
; Publication No. US20040010136A1  
; GENERAL INFORMATION:  
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.  
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression  
; FILE REFERENCE: PA-0002-1 CON  
; CURRENT APPLICATION NUMBER: US/10/305,720  
; CURRENT FILING DATE: 2002-11-26  
; PRIOR APPLICATION NUMBER: 09/016,434  
; PRIOR FILING DATE: 1998-01-30  
; NUMBER OF SEQ ID NOS: 1490  
; SOFTWARE: PERL Program  
; SEQ ID NO 831  
; LENGTH: 1750  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20040010136A1 555697  
US-10-305-720-831

Query Match 8.9%; Score 239.2; DB 17; Length 1750;  
Best Local Similarity 56.3%; Pred. No. 7.9e-56;  
Matches 529; Conservative 0; Mismatches 378; Indels 33; Gaps 3;  
QY 152 TCATCATCAACAACTCAAGGGTTTCGGTCACTCAGATCAGAGCTTCGAACCGG 211  
DB 214 TCCGTTACGACCAAGGTCAAGGCGTGGCTGTGACCAACACTTCTAAACTTGGATTCCGG 273  
QY 212 CTGTGGGATGTGGCGACTTGTGTAGGCACCTCAGGGAGAGAGCTGTCTTCTTGTG 271  
DB 274 ATCTGGGATGTGGCGGATTATGTGATACCACTCAGGAGGAAACTTCCCTCTTCTGTCATG 333  
QY 272 ACCAACTTCTTGTGACGCGCAGCCCAAGTTTCAGGGCAGATGCCAGAGCACCCGCTCCGTC 331  
DB 334 ACCAAGTGATCTTCACTCATCAACAGACACAGGCGCTGTGCCCGAGATTCTC--CAGAT 390  
QY 332 CCAGTGGCTAACTGTCTGGGTGGAAGGAGTGTGCCCGGAGGGAGGAGGACACACAGC 391

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Db 391 GCACCACTGTGTAAATCAGATGCCAGTGTACTGCCGCTCTGCCGACCCACAGC 450
Qy 392 CACGGTGTAAAAACAGCCAGTGTGTGTGTTCAATGGGACCCACAGGACCTGTGAGATC 451
Db 451 AACGGAGTCTCAACAGGAGTGCCTGAGTCTTCAACGGGTCCGTCAAGACGCTGAGGGT 510
Qy 452 TGGAGTGTGCCAGTGGAGAGTGGC---GTTGTGCCCTCGAGGCCCTCTGTCGCCAG 508
Db 511 CGGGCTGTGGTCCCGTGGAGGATGACACACGTGCCCAACCTCTCTTTTAAAGGCT 570
Qy 509 GCCAGAACTTCACTGTTCATCAAAAACACAGTCACTTCAGCAAGTTCAACTTCTCT 568
Db 571 GCAGAAACTTCACTCTTTTGGTTAAGAACACATCTGGTATCCCAATTTAATTTTCAGC 630
Qy 569 AAGTCAATGCCCTTGGAGACTGGGACCCCACTATTTTAAAGCACTGCCGCTATGAACCA 628
Db 631 AAGAGGAATATCTTCCCAACATCACCACTACTTACTCAAGTCGTGATTTATGATCT 690
Qy 629 CAATTGAGCCCTACTGTCTCGTGTTCGGATTTGGGACCTCTGTCGCCAAGGCTGGAGG 688
Db 691 AAAACAGATCCCTTCTGCCCATATTTCCGTCTTGGCAAAATAGTGGAGAACGAGGAC 750
Qy 689 ACCTTCAGGACCTGCGTGTCTGGGTGCTCTGTAGGCATCAGATTCACCTGGGATCT 748
Db 751 AGTTCCAGGACATGGCCGTGGAGGAGGATCATGGGCATCCAGGTCAACTGGGACTGC 810
Qy 749 GACCTGGACACCGGGGACTGTGCTCTGCGCTCTCACTACTCTTCCAGCTGCGAGAGA-- 806
Db 811 AACCTGGACAGAGCCGCTCTCTGCTGTCGCCAGGTACTCTCTCGCGCTCGATACA 870
Qy 807 -----AGAGTACAACTTCAGGACAGCCACTCACTGGTGG 841
Db 871 CGGGAGTGTGAGCAACACGTATCTCTGGCTACAAATTCAGGTTTGGCAAGTACTACAG 930
Qy 842 GAGCAACCGGTGTGAGGCGCCGACCTGCTCAAGCTCTATGGATCCGCTTCGACATC 901
Db 931 GACCTGGTGGCAACGAGCAGCGCATCGCTCATCAGGCCCTATGGCATCCGCTTCGACATC 990
Qy 902 CTCGTCAACCGGCGAGCAGGAAAGTTTGGGCTCATCCCAACGCGCTCACACTGGGCAC 961
Db 991 ATGTGTTTGGGAAGCAGGGAATTTGACATCATCCCACTATGATCAACATCGGCTCT 1050
Qy 962 GGGGAGCTTGGTGGCGGTGTCACCTTTTCTGTGACCTGCTACTGCTGTATGTGAT 1021
Db 1051 GGCTGGCACTGTAGGCAATGGCGCGCTGTGTGTGACATCATAGTCTCTACTGCTG 1110
Qy 1022 AGAGAGCCATTTCTACTGGAGGACAAAGTATGAGGAG 1061
Db 1111 AAGAAAGACTCTACTATCGGGAGAGAAATATAAATATG 1150
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## RESULT 11

```
US-10-128-558-20
; Sequence 20, Application US/10128558
; Publication No. US20040219521A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Wang, Zhiwei
; APPLICANT: Weng, Gezhi
; APPLICANT: Boyle, Bryan J
; APPLICANT: Drmanac, Radoje T
; TITLE OF INVENTION: Novel Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 812A
; CURRENT APPLICATION NUMBER: US/10/128,558
; CURRENT FILING DATE: 2002-04-22
; PRIOR APPLICATION NUMBER: US 60/339,453
; PRIOR FILING DATE: 2001-12-11
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 09/552,317
; PRIOR FILING DATE: 2000-04-25
```

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; PRIOR APPLICATION NUMBER: PCT/US00/35017
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 09/496,914
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: US 09/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: PCT/US01/03800
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: US 09/515,126
; PRIOR FILING DATE: 2000-02-28
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 412
; SOFTWARE: pt_FL_genes Version 6.0
; SEQ ID NO 20_
; LENGTH: 1269
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1269)
; US-10-128-558-20
```

```
Query Match 8.8%; Score 237.6; DB 18; Length 1269;
Best Local Similarity 56.2%; Pred. No. 2e-55;
Matches 528; Conservative 0; Mismatches 379; Indels 33; Gaps 3;
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Qy 152 TCATCATCACCAAACTCAAAGGGTTTCCGTCACTCAGATCAGGAGCTTGGAAACCGG 211
Db 187 TCCGTTACACCAAGTCAAGGGCGTGGCTGTGACCAACACTTCTAAACTTGGATTCGG 246
Qy 212 CTGTGGATGTGCGGACTTCTGTGAAGCCACTCAGGGAGAGAACTGTCTTCTTGGTG 271
Db 247 ATCTGGATGTGCGGATTTATGTATACAGTCTCAGAGAGAAATCTCCTCTTCGTATG 306
Qy 272 ACCAACTTCTTGTGACGCGCAGCCCAAGTTTCAGGGCAGATGCCCAGAGACCCGTCGGTC 331
Db 307 ACCAAGCTGATCCTCACCATGAACACAGACAGGGGCTGTGCCCCGAGATTC---CAGAT 363
Qy 332 CCACTGGCTAACTGTGGGTGACAGGAGACTGCCCGAAGGGAGGAGGACACACAGC 391
Db 364 GGGACCACTGTGTAAATCAGATGCCAGTGTACTGCGCGCTCTGCCGACCCACAGC 423
Qy 392 CACGGTGTAAAAACAGGCCAGTGTGTGGTGTTCATATGGGACCCACAGGACCTGTGAGATC 451
Db 424 AACGGAGTCTCAACAGGCGAGTGCCTAGTCTTCAACGGGTCTGTCAAGACGTGTGAGGTG 483
Qy 452 TGGAGTTGTGCCCACTGAGAGTGGC---GTTGTGCCCTCGAGGCCCTCTGTCGCCAG 508
Db 484 GCGGCTGTGTGCCGCTGGAGGATGACACACAGTGCACACACCTGCTTTTTTAAAGGCT 543
Qy 509 GCCAGAACTTCACTGTTCATCAAAAACACAGTCACTCTCAGCAAGTTCAACTTCTCT 568
Db 544 GCAGAAAACTTCACTCTTTTGGTTAAGAACAAACATCTGGTATCCCAATTTAATTTTCAGC 603
Qy 569 AAGTCCAATGCTTGGAGACCTGGGACCCCACTATTTTAAAGCACTGCCGCTATGAACCA 628
Db 604 AAGAGGAATATCTTCCCAACATCACCACTACTTACTCAAGTCGTGCAATTTATGATGCT 663
Qy 629 CAATTGAGCCCTACTGTCTCCGCTTCCGCATTTGGGGAACCTGTGTCGCCAAGGCTGGAGGG 688
Db 664 AAAACAGATCCCTCTGTGCCCATATTCGCTCTTGGCAAAATAGTGGAGAACGAGGACAC 723
Qy 689 ACCTTCGAGGACCTGCGCTTGTGGGTGCTCTGTAGGCATCAGAGTTCACCTGGGATGCT 748
Db 724 AGTTCCAGGACATGGCCGTGGAGGAGGACATCATGGGCATCCAGGTCAACTGGGACTGC 783
Qy 749 GACCTGGACACCGGGGACTCTGGCTGCTCACTACTCTTCCAGCTGCGAGGAGA-- 806
Db 784 AACCTGGACAGAGCCGCTCTCCTCTGTCGCCAGGATCTCCTTCCGCGCTCGATACA 843
```

QY 807 -----AGAGTACAACCTTCCAGGAGGCTTCCGCTCACTCAGATCAAGAGGCTTCCGAAACCGG 211  
DB 844 CGGGAGCTTGAGCACAACGTAATCTCTCGGTGCTGAGCAACACATCTCTAAACCTTGGATTCGG 246  
QY 842 GAGCAACCGGGTGTGGAGCCCGCACCCTGCTCAAGCTCTATGGAATCCGCTTCGACATC 271  
DB 904 GACCTGGCTGGCAACGAGCAGCGCAGCTCATCAAGGCTTATGGCATCCGCTTCGACATC 306  
QY 902 CTCGTACCGGCGAGGAGGAGTTCGGGCTCATCCCAAGGCTGACATCGGCTGACATCGGCGACC 331  
DB 964 ATTGTGTTGGGAAGGCGAGGAAATTTGACATCATCTCCCACTATGATCAACATCGGCTCT 1023  
QY 962 GGGGAGCTTGGCTGGCGGTGGTCACTTTTCTGTGACCTGCTACTGCTGTATGGAT 1021  
DB 1024 GGCCTGGCACTGCTAGGCAATGGGACCGCTGCTGTGTGATCATATAGTCTCTACTGCATG 1083  
QY 1022 AGAGAAGCCATTTCTACTGAGGACAAAGATATGAGGAG 1061  
DB 1084 AAGAAAAGACTCTACTATCGGAGAGAAATATAATATG 1123

## RESULT 12

US-10-386-414-16  
; Sequence 18, Application US/10386414  
; Publication No. US20040006016A1  
; GENERAL INFORMATION:  
; APPLICANT: Kapeller-Libermann, Rosana  
; APPLICANT: Robison, Keith E.  
; APPLICANT: White, David  
; APPLICANT: Williamson, Mark W.  
; APPLICANT: Cook, William James  
; APPLICANT: Meyers, Rachel E.  
; APPLICANT: MacBeth, Kyle J.  
; APPLICANT: Carroll, Joseph M.  
; APPLICANT: Chun, Miyoung  
; TITLE OF INVENTION: NOVEL 27875, 22025, 27420, 17906, 16319,  
; FILE REFERENCE: MPI03-0210NNIM  
; CURRENT APPLICATION NUMBER: US/10/386,414  
; CURRENT FILING DATE: 2003-03-11  
; PRIOR APPLICATION NUMBER: 09/426,282  
; PRIOR FILING DATE: 1999-10-25  
; PRIOR APPLICATION NUMBER: 09/668,266  
; PRIOR FILING DATE: 2000-09-22  
; PRIOR APPLICATION NUMBER: 09/330,970  
; PRIOR FILING DATE: 1999-06-11  
; PRIOR APPLICATION NUMBER: 09/724,599  
; PRIOR FILING DATE: 2000-11-28  
; PRIOR APPLICATION NUMBER: 09/860,193  
; PRIOR FILING DATE: 2001-05-16  
; PRIOR APPLICATION NUMBER: 10/283,023  
; PRIOR FILING DATE: 2002-10-29  
; PRIOR APPLICATION NUMBER: 60/335,044  
; PRIOR FILING DATE: 2001-10-31  
; PRIOR APPLICATION NUMBER: 10/010,943  
; PRIOR FILING DATE: 2001-12-06  
; PRIOR APPLICATION NUMBER: 60/254,037  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: 09/833,082  
; PRIOR FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 18  
; LENGTH: 1167  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-10-386-414-18

Query Match 8.8; Score 237.2; DB 17; Length 1167;  
Best Local Similarity 56.1%; Pred. No. 2.5e-55;  
Matches 527; Conservative 1; Mismatches 379; Indels 33; Gaps 3;

## RESULT 13

US-10-386-414-16  
; Sequence 16, Application US/10386414  
; Publication No. US20040006016A1  
; GENERAL INFORMATION:  
; APPLICANT: Kapeller-Libermann, Rosana  
; APPLICANT: Robison, Keith E.  
; APPLICANT: White, David

APPLICANT: Williamson, Mark W.  
APPLICANT: Cook, William James  
APPLICANT: Meyers, Rachel E.  
APPLICANT: MacBeth, Kyle J.  
APPLICANT: Carroli, Joseph M.  
APPLICANT: Chun, Miyoung  
TITLE OF INVENTION: NOVEL 27875, 22025, 27420, 17906, 16319,  
TITLE REFERENCE: 55092 AND 10218 MOLECULES AND USES THEREFOR  
CURRENT APPLICATION NUMBER: US/10/386,414  
PRIOR FILING DATE: 2003-03-11  
PRIOR FILING DATE: 1999-10-25  
PRIOR APPLICATION NUMBER: 09/426,282  
PRIOR FILING DATE: 2000-09-22  
PRIOR APPLICATION NUMBER: 09/330,970  
PRIOR FILING DATE: 1999-06-11  
PRIOR APPLICATION NUMBER: 09/724,599  
PRIOR FILING DATE: 2000-11-28  
PRIOR APPLICATION NUMBER: 09/860,193  
PRIOR FILING DATE: 2001-05-16  
PRIOR APPLICATION NUMBER: 10/283,023  
PRIOR FILING DATE: 2002-10-29  
PRIOR APPLICATION NUMBER: 60/335,044  
PRIOR FILING DATE: 2001-10-31  
PRIOR APPLICATION NUMBER: 10/010,943  
PRIOR FILING DATE: 2001-12-06  
PRIOR APPLICATION NUMBER: 60/254,037  
PRIOR FILING DATE: 2000-12-07  
PRIOR APPLICATION NUMBER: 09/833,082  
PRIOR FILING DATE: 2001-04-10  
NUMBER OF SEQ ID NOS: 19  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 16  
LENGTH: 2048  
TYPE: DNA  
ORGANISM: Homo Sapien  
US-10-386-414-16

Query Match 8.8%; Score 237.2; DB 17; Length 2048;  
Best Local Similarity 56.1%; Pred. No. 3e-55;  
Matches 527; Conservative 1; Mismatches 379; Indels 33; Gaps 3;

QY 152 TCATCATCACCAAACTCAAGGGGTTTCGGTCACTCAGATCAAGAGCTTGGAAACCG 211  
DB 496 TCGTTACGACCAAGTCAAGGGCGTGTGACCAACTTCTAACTTGGATTCCGG 555  
QY 212 CTGTGGATGTGGCCGACTCTGTGAAGCCACTCAGGAGAGAACTGTTCTTCTTGGTG 271  
DB 556 ATCTGGATGTGGCGGATTATGTGATACCAAGCTCAGGAGGAAACTCCCTCTTCGTGATG 615  
QY 272 ACCAATCTCTGTGACGCGCAGCCAAAGTTTCAGGCGAGATGCCAGAGCACCGTCCGTC 331  
DB 616 ACCAAGTGTCTTCACTACGAGACCAAGAGGCGCTGTGCCCGAGATTC---CAGAT 672  
QY 332 CCATCGGCTAACTGTGGTTCGACGAGGACTGCCGGAAGGGGAGGAGGACACACAGC 391  
DB 673 GCGACCACTGTGTGTAATACAGATCCAGCTGTACTGCGGCTCTGCCGCGACCCACAGC 732  
QY 392 CAGGTTGTAACAGCGCCAGTGTGTGTGTTCAATGGAGCCACAGGACCTGTGAGATC 451  
DB 733 AACGGAGTCTCAACAGCGAGGTCGTGTGTTCAACGGGTCTGTCAAGAGCTGTGTGARGTG 792  
QY 452 TGGAGTTGGTGGCCAGTGGAGAGTGGC---GTGTGTCCTCGAGGCGCTGTGGGCCAG 508  
DB 793 GCGGCTGTGGCCGTTGGAGGATGACACACGTCGCCACCACTGCTTTTTTAAAGGCT 852  
QY 509 GCCAGAGACTTCACTGTTCATCAAAACACAGTCACTTTCAGCAGGTTCACTTCTCT 568  
DB 853 GCAGAAACTTCACTCTTTTGGTTAGAACACATCTGTATCCCAAATTTAATTTTCAGC 912  
QY 569 AAGTCAATGCTGTGAGAGCTGGGACCCCACTATTTTAAGCACTGCGCGTATGAACA 628

Db 913 AAGAGGATATCTCTCCCAACATCACCACACTTACTCAAGTCGTGCTATTTATGATGCT 972  
QY 629 CAATTCAGCCCTACTGTCTCCGTTTCGCAATTTGGGAGCCTGTGCCCAAGGCTGGAGGG 688  
Db 973 AAAACAGATCCCTCTCTGCCCCATATTTCCGCTTTGGCAAAATAGTGAGAAACGAGGACAC 1032  
QY 689 ACCTTCGAGGACCTGGCGTTGCTGGGTGCTCTGTAGGAGCATCAGAGTTCACTGGGATTGT 748  
Db 1033 AGTTTCCAGGACATGGCCGCTGGAGGAGGAGCATATGGGCATCCAGGTCAACTGGGACTGC 1092  
QY 749 GACCTGGACACCGGGGACTCTGGCTGCTGGCTCACTACTCTCTTCCAGCTGCAGGAGA-- 806  
Db 1093 AACCTGGACAGAGCGCCCTCTCTCTGCTTGGCCAGGTACTCTCTCCGCGCCCTCGATACA 1152  
QY 807 -----AGAGCTACAACTTCAGGACACCCACTCACTCGGTGG 841  
Db 1153 CGGAGCGTTTGAGCACAAACGATATCTCTGGCTACAATTTCCAGGTTTCCCAAGTACTACAGA 1212  
QY 842 GAGCAACCGGGTGTGGAGGCCCGCACCTCTGCTCAAGCTCTATGGAAATCCGCTTCGACATC 901  
Db 1213 GACCTGGCTGGCAACGAGCAGCGCACGCTCATCAAGGCCCTATGGCATCCGCTTCGACATC 1272  
QY 902 CTCGTCAACCGGCGAGCAGCGGAAAGTTTCGGGCTCATCCCAAGCGCTCACTGGGACCC 961  
Db 1273 ATTGTGTTGGAGAGCGAGGAAATTTGACATCATCCCCACTATGATGATCAACATCGGCTCT 1332  
QY 962 GGGGCGAGCTTGGCTGGCGGTGTGCTACCTTTTCTGTGACCTGCTACTGTGTATGTGGAT 1021  
Db 1333 GGCCTGGCACTGCTAGGCATGGCGCGTGTGTGTGACATCATAGTCTCTCTACTGATG 1392  
QY 1022 AGAGAAGCCATTTCTACTGGAGGACAAAGTATGAGGAGG 1061  
Db 1393 AAGAAAAGACTCTACTATTCGGGAGAGAAATATATAATATG 1432

RESULT 14  
US-10-240-425-1468  
; Sequence 1468, Application US/10240425  
; Publication No. US20040033502A1  
; GENERAL INFORMATION:  
; APPLICANT: Williams, Amanda  
; APPLICANT: Boland, Joseph F.  
; APPLICANT: Lord, Reginald V.  
; APPLICANT: Alvarez, Chris  
; APPLICANT: Wetzel, Jon C.  
; APPLICANT: Scherf, Uwe  
; APPLICANT: Vockley, Joseph G.  
; TITLE OF INVENTION: Gene Expression Profiles in Esophageal Tissue  
; FILE REFERENCE: 44921-5026  
; CURRENT APPLICATION NUMBER: US/10/240,425  
; CURRENT FILING DATE: 2002-09-30  
; PRIOR APPLICATION NUMBER: PCT/US01/09847  
; PRIOR FILING DATE: 2001-03-28  
; PRIOR APPLICATION NUMBER: US 60/193,446  
; PRIOR FILING DATE: 2000-03-31  
; NUMBER OF SEQ ID NOS: 1588  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1468  
; LENGTH: 2048  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: Genbank Accession No. US20040033502A1 U83993  
US-10-240-425-1468

Query Match 8.8%; Score 237.2; DB 17; Length 2048;  
Best Local Similarity 56.1%; Pred. No. 3e-55;  
Matches 527; Conservative 1; Mismatches 379; Indels 33; Gaps 3;

QY 152 TCATCATCACCAAACTCAAGGGGTTTCGGTCACTCAGATCAAGAGCTTGGAAACCG 211  
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QY 212 CTGTGGATGTGGCCGACTCTGTGAAGCCACTCAGGAGAGAACTGTTCTTCTTGGTG 271  
DB 556 ATCTGGATGTGGCGGATTATGTGATACCAAGCTCAGGAGGAAACTCCCTCTTCGTGATG 615  
QY 272 ACCAATCTCTGTGACGCGCAGCCAAAGTTTCAGGCGAGATGCCAGAGCACCGTCCGTC 331  
DB 616 ACCAAGTGTCTTCACTACGAGACCAAGAGGCGCTGTGCCCGAGATTC---CAGAT 672  
QY 332 CCATCGGCTAACTGTGGTTCGACGAGGACTGCCGGAAGGGGAGGAGGACACACAGC 391  
DB 673 GCGACCACTGTGTGTAATACAGATCCAGCTGTACTGCGGCTCTGCCGCGACCCACAGC 732  
QY 392 CAGGTTGTAACAGCGCCAGTGTGTGTGTTCAATGGAGCCACAGGACCTGTGAGATC 451  
DB 733 AACGGAGTCTCAACAGCGAGGTCGTGTGTTCAACGGGTCTGTCAAGAGCTGTGTGARGTG 792  
QY 452 TGGAGTTGGTGGCCAGTGGAGAGTGGC---GTGTGTCCTCGAGGCGCTGTGGGCCAG 508  
DB 793 GCGGCTGTGGCCGTTGGAGGATGACACACGTCGCCACCACTGCTTTTTTAAAGGCT 852  
QY 509 GCCAGAGACTTCACTGTTCATCAAAACACAGTCACTTTCAGCAGGTTCACTTCTCT 568  
DB 853 GCAGAAACTTCACTCTTTTGGTTAGAACACATCTGTATCCCAAATTTAATTTTCAGC 912  
QY 569 AAGTCAATGCTGTGAGAGCTGGGACCCCACTATTTTAAGCACTGCGCGTATGAACA 628



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QY 212 CTGTGGATGTGGCCGACTTCGTGAAGCCACTCAGGGAGAGAAAGTGTCTTCTTGTGTG 271
Db 556 ATCTGGATGTGGCGGATTTATGTATACAGCTCAGGAGGAAATCTCCCTCTTGTGTG 615
QY 272 ACCAATCTCTGTGTGAGCGCAGCCCAAGTTCAGGGAGATGCCAGAGACCCGTCCTGTC 331
Db 616 ACCAAGTGTATCTTCAACCAATGAACACAGACAGGGCTGTGCCCCGAGATTC---CAGAT 672
QY 332 CCACTGGCTAACTGTCTGGGTCCAGCAGGACTGCCCGAAGGGAGGGAGGACACACACAGC 391
Db 673 GGCACACATGTGTGTAATACAGATGCCAGCTGTACTGCCGGCTCTGCCGGACCCACAGC 732
QY 392 CACGGGTGTAATAACAGCCAGTGTGTGTTCATATGGGACCCACAGGACCTGTGAGATC 451
Db 733 AACGGAGTCTCAACAGGAGGAGTGTGTGTTCACGGGTCTGTCAAGAGTGTGARGTG 792
QY 452 TGGAGTGTGCTGAGAGAGTGGC---GTTGTGCCCTCGAGGCCCTGTGCGCCAG 508
Db 793 GCGGCTGTGTCGGGTGGAGGATGACACACAGTGCACACAGTGCCTGTTTAAAGGCT 852
QY 509 GCCCAGAACTTCACACTGTTCATCAAAACACAGTCACTTCAAGTTCAGTTCCTCT 568
Db 853 GCAGAAATCTTCACTCTTTTGGTTAAGAAACATCTGGTATCCCAATTTAATTTTCAGC 912
QY 569 AAGTCCAAATGCTTGGAGACCTGGGACCCCACTATTTAAGCACTGCGCTATGAACCA 628
Db 913 AAGAGGAATATCTTCCCAACATCACCCTACTTCAAGTCGTGCAATTTATGATGCT 972
QY 629 CAAATCAGCCCTACTGTCCCTGTTCGCAATGGGACCTCTGGGCCCAAGGCTGGAGGG 688
Db 1213 GACCTGGCTGGCAACAGCAGCGCAGCTCATCAGGCTATGGCAATCGCTTCGACATC 1272
QY 902 CTCGTCAACCGGAGGAGGAGTTCGGGCTCATCCCAAGGCTCATCTGAGTTCGAGGAG 961
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Db 1333 GGCCTGGCACTGTAGGCAATGGCGACCGTGTGTGTGACATCATAGTCTCTACTGCAATG 1392
QY 1022 AGAGAGCCCATTTCTACTTGGAGGACAAAGTATGAGGAG 1061
Db 1393 AAGAAAGACTCTACTATCGGGAGAGAAATATAATATG 1432
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## RESULT 15

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US-10-482-029-256
; Sequence 256, Application US/10482029
; Publication No. US20050037445A1
; GENERAL INFORMATION:
; APPLICANT: ODIN medical A/S
; TITLE OF INVENTION: Oncology drug innovation
; FILE REFERENCE: P 573 PC00
; CURRENT APPLICATION NUMBER: US/10/482,029
; CURRENT FILING DATE: 2003-12-29
; NUMBER OF SEQ ID NOS: 437
; SOFTWARE: PatentIn version 3.1
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; SEQ ID NO 256
; LENGTH: 2048
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-482-029-256

Query Match      8.8%; Score 237.2; DB 19; Length 2048;
Best Local Similarity 56.1%; Pred. No. 3e-55;
Matches 527; Conservative 1; Mismatches 379; Indels 33; Gaps 3;

QY 152 TCATCATCACCAAACTCAAGGGGTTCCTCACTCAGATCAAGGAGCTTGGAAACCGG 211
Db 496 TCCGTTACGACCAAGGTCAAGGGCGTGTGTGACCAACACTTCTAAATCTGGATTCGG 555
QY 212 CTGTGGGATGTGGCGCACTTCGTGAAGCCACTCAGGAGAGAAAGTGTCTTCTTGTGTG 271
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QY 272 ACCAACTTCTTGTGACGCGCAGCCCAAGTTCAGGCGAGATGCCAGAGCACCCGTCCTGTC 331
Db 616 ACCAAGTGTATCTTCAACCAATGAACACAGACAGGGCTGTGCCCCGAGATTC---CAGAT 672
QY 332 CCACTGGCTAACTGTCTGGGTCCAGGAGACTGCCCGAAGGGAGGGAGGACACACAGC 391
Db 673 GCGACCACTGTGTGTAATTCAGATGCCAGCTGTACTGCCGGCTCTGCCGGCACCCACAGC 732
QY 392 CACGGTGTAAATAACAGGCCAGTGTGTGTTCATATGGGACCCACAGGACCTGTGAGATC 451
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QY 452 TGGAGTGTGTCGCCAGTGGAGAGTGGC---GTTGTGCCCTCGAGGCCCTGTGCGCCAG 508
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QY 569 AAGTCCAAATGCTTGGAGACCTGGGACCCCACTATTTAAGCACTGCGCTATGAACCA 628
Db 913 AAGAGGAATATCTTCCCAACATCACCCTACTTCAAGTCGTGCAATTTATGATGCT 972
QY 629 CAAATCAGCCCTACTGTCCCTGTTCGCAATGGGACCTCTGGGCCCAAGGCTGGAGGG 688
Db 973 AAAACAGATCTCTTCTGCCCAATTTCCGTCTTGGCAAAATAGTGGAGAACGCGAGACAC 1032
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Db 1093 AACCTGGACAGAGCCGCTCCCTCTGTGTGCCAGGTACTCTTCCGCGCCTCGATACA 1152
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Db 1153 CGGGAGCTTTGAGCAACACGATATCTCTGGCTACAATTTTCAGGTTTTCGCAAGTACTACAGA 1212
QY 842 GAGCAACCGGCTGTGGAGGCCCGCACTCTCAAGCTCTATGGAATCGCTTCGACATC 901
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QY 902 CTCGTCAACCGGAGGAGGAGTTCGGGCTCATCCCAAGGCTCATCTGAGTTCGAGGACCC 961
Db 1273 ATTGTGTTTGGGAAGGAGGAGGAGTTCGAGTTCATCCCACTATGATCAACATCGGCTCT 1332
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OM nucleic - nucleic search, using sw model

Run on: March 21, 2005, 14:16:36 ; Search time 460.018 Seconds  
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Perfect score: 2693  
Sequence: 1 ttgtgactcatgtgccgc.....aaaaaaaaaaaaaaaaaaaaa 2693

Scoring table: IDENTITY NUC  
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Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1515.4	56.3	1697	3	US-09-381-681-2
2	1162.4	43.2	1360	3	US-09-191-136-30
3	1155.8	42.9	1293	3	US-09-381-681-1
4	394.4	14.6	396	3	US-09-191-136-28
5	243.6	9.0	1978	4	US-09-949-016-367
6	239.2	8.9	1750	4	US-09-016-434-831
7	239.2	8.9	1762	2	US-08-742-621-2
8	237.6	8.8	1206	3	US-09-191-608-21
9	237.6	8.8	1389	4	US-09-949-016-3548
10	233.4	8.7	2597	4	US-09-949-016-4136
11	233.4	8.7	2643	2	US-08-750-134A-10
12	233.4	8.7	2643	3	US-09-363-745-10
13	233.4	8.7	2643	4	US-09-023-655-897
14	233.4	8.7	2843	4	US-09-949-016-365
15	231.6	8.6	1946	4	US-08-750-134A-6
16	225.4	8.4	1997	2	US-08-750-134A-6
17	225.4	8.4	1997	3	US-09-363-745-6
18	214.4	8.0	1421	3	US-09-191-608-14
19	213.2	7.9	1436	3	US-09-191-608-13
20	206	7.6	1837	2	US-08-750-134A-4
21	206	7.6	1837	3	US-09-363-745-4
22	200.2	7.4	237	3	US-09-191-136-29
23	199.4	7.4	1499	3	US-09-191-608-16
24	198.8	7.4	1034	4	US-09-949-016-3378
25	198.8	7.4	1034	4	US-09-949-016-3379
26	168.6	6.3	1243	3	US-09-191-136-15
27	165.4	6.1	1456	4	US-09-949-016-366

28	156.2	5.8	1272	3	US-09-191-136-13	Sequence 13, Appl
29	155.4	5.8	1349	3	US-09-191-608-15	Sequence 15, Appl
30	155.4	5.8	1753	3	US-08-750-134A-8	Sequence 8, Appl
31	155.4	5.8	1753	3	US-09-363-745-8	Sequence 8, Appl
32	144.4	5.4	1156	4	US-09-949-016-1705	Sequence 1705, Ap
33	144.4	5.4	1156	4	US-09-949-016-1706	Sequence 1706, Ap
34	131.2	4.9	961	4	US-09-023-655-370	Sequence 370, App
35	115.8	4.3	1023	4	US-09-949-016-4714	Sequence 4714, Ap
36	103.8	3.9	1853	3	US-08-842-079-19	Sequence 19, Appl
37	103.8	3.9	1853	3	US-09-638-857-19	Sequence 19, Appl
38	99.8	3.7	3540	3	US-08-842-079-16	Sequence 16, Appl
39	99.8	3.7	3540	4	US-09-638-857-16	Sequence 16, Appl
40	94	3.5	94	3	US-09-191-136-18	Sequence 18, Appl
41	92.4	3.4	394	3	US-09-191-136-27	Sequence 27, Appl
42	90.4	3.4	878	1	US-07-915-934-3	Sequence 3, Appl
43	90.4	3.4	878	1	US-08-325-743-3	Sequence 3, Appl
44	83.2	3.1	531	3	US-09-191-608-8	Sequence 8, Appl
45	66.4	2.5	25370	4	US-09-949-016-12109	Sequence 12109, A

## ALIGNMENTS

## RESULT 1

US-09-381-681-2  
; Sequence 2, Application US/09381681  
; Patent No. 6255472  
; GENERAL INFORMATION:  
; APPLICANT: TAKINO, Takashi  
; APPLICANT: NAKAMURA, Yusuke  
; TITLE OF INVENTION: HUMAN GENES  
; FILE REFERENCE: Q55876  
; CURRENT APPLICATION NUMBER: US/09/381,681  
; CURRENT FILING DATE: 2000-01-10  
; EARLIER APPLICATION NUMBER: JPA 9-093044  
; EARLIER FILING DATE: 1997-03-26  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 2  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (46)..(1338)  
US-09-381-681-2

Query Match	56.3%	Score 1515.4;	DB 3;	Length 1697;
Best Local Similarity	99.6%	Pred. No. 0;		
Matches 1512;	Conservative	0;	Mismatches 6;	Indels 0;
Gaps	0;			
Qy	97	GTGGGCTCTCTCGCCAAAAGGCTACCGAGGGGACCTGGAAACCCAGTTTCCAT	156	
Db	180	GTGGGGCTCTCTCGCCAAAAGGCTACCGAGGGGACCTGGAAACCCAGTTTCCAT	239	
Qy	157	CATCACCAAACTCAAAGGGTTTCGTCTCAGATCAAGAGCTGGAAACCCGGCTGTG	216	
Db	240	CATCACCAAACTCAAAGGGTTTCGTCTCAGATCAAGAGCTGGAAACCCGGCTGTG	299	
Qy	217	GGATGCGCGACTTCGTGAAGCCCTCAGGAGGAGACGTGTTCTTCTTGGTGACCA	276	
Db	300	GGATGCGCGACTTCGTGAAGCCCTCAGGAGGAGACGTGTTCTTCTTGGTGACCA	359	
Qy	277	CTTCTTGTGACGCGCAGCCCAAGTTTCAGGGCAGATGCCAGAGCACCCCTCGTCCCACT	336	
Db	360	CTTCTTGTGACGCGCAGCCCAAGTTTCAGGGCAGATGCCAGAGCACCCCTCGTCCCACT	419	
Qy	337	GGCTAACTCTGGGTGCGACGAGACTGCCCCGAGGGAGGAGGACACACAGCCACGG	396	
Db	420	GGCTAACTCTGGGTGCGACGAGACTGCCCCGAGGGAGGAGGACACACAGCCACGG	479	
Qy	397	TGTAAAAACAGCCCAAGTGTGTGTTCTTCAATGGGACCCACAGACCTGTGAGATCTGGAG	456	

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Qy	517	CTTCACACTGTTCATCAAAACACAGTCACTTCAGCAAGTTCAACTTCTCTAAGTCCAA	576
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Qy	577	TGCTTCGGAGACCTGGGACCCCACTATTTTAAGCACTGCGCTATCAACCAACAATTCAG	636
Db	660	TGCTTCGGAGACCTGGGACCCCACTATTTTAAGCACTGCGCTATCAACCAACAATTCAG	719
Qy	637	CCCCTACTGTCCCGTGTTCGGCATTTGGGACCTCGTGGCCCAAGGCTGGAGGGACCTTCGA	696
Db	720	CCCCTACTGTCCCGTGTTCGGCATTTGGGACCTCGTGGCCCAAGGCTGGAGGGACCTTCGA	779
Qy	697	GGACCTGGCGTGTGTGGGTGGCTGTGTAGGCATCAGAGTTCACTGGGATTTGTGACCTTGA	756
Db	780	GGACCTGGCGTGTGTGGGTGGCTGTGTAGGCATCAGAGTTCACTGGGATTTGTGACCTTGA	839
Qy	757	CACGGGGACCTGGGCTGTGGCTCACTACTCTTCAGCTGCAGAGAGAGACTTCAAA	816
Db	840	CACGGGGACCTGGGCTGTGGCTCACTACTCTTCAGCTGCAGAGAGAGACTTCAAA	899
Qy	817	CTTCAGACAGCCACTCACTGTGTGGAGCAACCGGGTGTGGAGCCCGCACCTGTCTCAA	876
Db	900	CTTCAGACAGCCACTCACTGTGTGGAGCAACCGGGTGTGGAGCCCGCACCTGTCTCAA	959
Qy	877	GCTCTATGGAATCCGCTTCGACATCTCTCGTCAACCGGGCAGGCAAGGTTTCGGGCTCAT	936
Db	960	GCTCTATGGAATCCGCTTCGACATCTCTCGTCAACCGGGCAGGCAAGGTTTCGGGCTCAT	1019
Qy	937	CCCCACGGCCGTCACTATGGGCGACCGGGGAGACTTGGCTGGGGGTGTGACCTTTTCTG	996
Db	1020	CCCCACGGCCGTCACTATGGGCGACCGGGGAGACTTGGCTGGGGGTGTGACCTTTTCTG	1079
Qy	997	TGACCTCTACTGTGTATGTGGATCAGAGAAGCCCATTTCTACTGGAGGACAAAGTATGA	1056
Db	1080	TGACCTCTACTGTGTATGTGGATCAGAGAAGCCCATTTCTACTGGAGGACAAAGTATGA	1139
Qy	1057	GGAGGCCAAGGCCCCGAAAGCAACCGCCAACTCTGTGTGGAGGAGTGCGCCCTTGCATC	1116
Db	1140	GGAGGCCAAGGCCCCGAAAGCAACCGCCAACTCTGTGTGGAGGAGTGCGCCCTTGCATC	1199
Qy	1117	CCAGCCCGCATGGCCGAGTGCCTCAGACGGAGCTCAGCAGCTGCACCCACGCGCACTGC	1176
Db	1200	CCAGCCCGCATGGCCGAGTGCCTCAGACGGAGCTCAGCAGCTGCACCCACGCGCACTGC	1259
Qy	1177	TGCTGGGAGTCAGACACAGACACACAGAGTGGCCCTGTCCAAAGTTCTGCACACCCACTTGC	1236
Db	1260	TGCTGGGAGTCAGACACAGACACACAGAGTGGCCCTGTCCAAAGTTCTGCACACCCACTTGC	1319
Qy	1237	AAOCCCATTCOGGGAGCCTGTAGCGGTTCCCTGTGTGTGGAGTGTGGGGGCTGGGAAGGG	1296
Db	1320	AAOCCCATTCOGGGAGCCTGTAGCGGTTCCCTGTGTGTGGAGTGTGGGGGCTGGGAAGGG	1379
Qy	1297	CGGGGCCCTGCCTGGGGATCTCAAGGATAGGCCCCAGCATGAGAGGATTTGGGGGTAGAAT	1356
Db	1380	CGGGGCCCTGCCTGGGGATTTCAAGGATAGGGGCCCAAGCATTGGAGGATTTGGGGGTAGAAT	1439
Qy	1357	TCCACCTCTGAAACCCACAGCAGACTCCCTCCCTGTACTCCCACTTGTGTAGGGTGTCTG	1416
Db	1440	TCCACCTCTGAAACCCACAGCAGACTCCCTCCCTGTACTCCCACTTGTGTAGGGTGTCTG	1499
Qy	1417	CTCAGGAGGCATAGAACTGGGCTGTGTATTTGAGACGGCGCACAGAACTTCACCCCTGGAG	1476
Db	1500	CTCAGGAGGCATAGAACTGGGCTGTGTATTTGAGACGGCGCACAGAACTTCACCCCTGGAG	1559
Qy	1477	ACTGGGAGGCCACGACAGGCACTGTATTTGACAGGGCTTCGACTGTGATGGGAGGGCTC	1536
Db	1560	ACTGGGAGGCCACGACAGGCACTGTATTTGACAGGGCTTCGACTGTGATGGGAGGGCTC	1619

## RESULT 2

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US-09191-136-30
; Sequence 30, Application US/09191136B
; Patent No. 6214581
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Lynch, Kevin J.
; APPLICANT: Burgard, Edward C.
; APPLICANT: Van Biesen, T.
; TITLE OF INVENTION: Nucleic Acids Encoding A Functional
; TITLE OF INVENTION: Human Purinoreceptor P2X3 and P2X6 And Methods Of Production
; TITLE OF INVENTION: And Use Thereof
; FILE REFERENCE: 6293 US, P1
; CURRENT APPLICATION NUMBER: US/09/191,136B
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 09/008,526
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 09/008,185
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 60/071,298
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 60/071,669
; EARLIER FILING DATE: 1998-01-16
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 30
; LENGTH: 1360
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Sequencing Primer (polynucleotide)
US-09191-136-30

```

Query Match 43.2%; Score 1162.4; DB 3; Length 1360;  
Best Local Similarity 99.9%; Pred. No. 1.1e-288;  
Matches 1163; Conservative 0; Mismatches 1; Indels 0;

97	GTGGGCTCTCTCTGCGCAAAAAGGCTACCAAGAGCGGGACCTTGGAAACCCACAGTTTTCAT	156
QY		
180	GTGGGCGCTCTCTGCGCAAAAAGGCTACCAAGAGCGGGACCTTGGAAACCCACAGTTTTCAT	239
Db		
157	CATCAACCAACTCAAAAGGGTTTCCGTCACTCAGATCAAGGAGCTTGGAAAACCGGCTGTG	216
QY		
240	CATCAACCAACTCAAAAGGGTTTCCGTCACTCAGATCAAGGAGCTTGGAAAACCGGCTGTG	299
Db		
217	GGATGTGGCCGCACTTCTGTGAAGCCACCTCAGGGAGAGAACGTCTTCTTGGTGACCAA	276
QY		
300	GGATGTGGCCGCACTTCTGTGAAGCCACCTCAGGGAGAGAACGTCTTCTTGGTGACCAA	359
Db		
277	CTTCTCTGTGACGCCACCAAGTTTCAAGGCGAGATGCCAGAGACCCCGTCCGTCCCACT	336
QY		
360	CTTCTCTGTGACGCCACCAAGTTTCAAGGCGAGATGCCAGAGACCCCGTCCGTCCCACT	419
Db		
337	GGCTAACTGCTGGGTGCACAGGAGTCTCCCGAAGGGAGGAGGCACACAGACCAAGG	396
QY		
420	GGCTAACTGCTGGGTGCACAGGAGTCTCCCGAAGGGAGGAGGCACACAGACCAAGG	479
Db		
397	TGTAAAAACAGGCCAGTGTGTGTGTTCATATGGGACCCACAGGACCTGTGAGATCTGGAG	456
QY		
480	TGTAAAAACAGGCCAGTGTGTGTGTTCATATGGGACCCACAGGACCTGTGAGATCTGGAG	539
Db		
457	TTGTGGCCCACTGGAGAGTGGCGTTGTGGCCCTCGAGGGCCCTGTCTGGGCCACAGGCCACGAA	516
QY		

Db 540 TTGGTCCAGTGGAGAGTGGCGTTGTGCTCTGAGGCCCTCTGGGCCAGGACCA 599  
Qy 517 CTTCACTGTTTCATCAAAACACAGTCACTTTCAGCAAGTTCAACTTCTCTAAGTCCAA 576  
Db 600 CTTCACTGTTTCATCAAAACACAGTCACTTTCAGCAAGTTCAACTTCTCTAAGTCCAA 659  
Qy 577 TGCCTTGGAGACTGGGACCCACCTATTTTAAGCACTGCGCTATGAACCAATTCAG 636  
Db 660 TGCCTTGGAGACTGGGACCCACCTATTTTAAGCACTGCGCTATGAACCAATTCAG 719  
Qy 637 CCCCTACTGTCGCGTGTTCGCGATTGGGACCTCTGGGCAAGGCTGGAGGACCTTCGA 696  
Db 720 CCCCTACTGTCGCGTGTTCGCGATTGGGACCTCTGGGCAAGGCTGGAGGACCTTCGA 779  
Qy 697 GGACCTGGCGTTGCTGGGCGTCTGTAGGCATCAGAGTTCACTGGGATTGTGACCTGGA 756  
Db 780 GGACCTGGCGTTGCTGGGCGTCTGTAGGCATCAGAGTTCACTGGGATTGTGACCTGGA 839  
Qy 757 CACCGGGACTCTGGCTGCTGCGCTCACTACTCTTCAGCTGCAGGAGAGACTACAA 816  
Db 840 CACCGGGACTCTGGCTGCTGCGCTCACTACTCTTCAGCTGCAGGAGAGACTACAA 899  
Qy 817 CTTCAAGGACAGCACTCACTGTGTGGAGCAACCGGCTGTGGAGGCCCGCACCTCTCAA 876  
Db 900 CTTCAAGGACAGCACTCACTGTGTGGAGCAACCGGCTGTGGAGGCCCGCACCTCTCAA 959  
Qy 877 GCTATATGAATCCGCTTCAGCATCTCTGTCACCGGGCAGGAGGAGGTTTCGGGCTCAT 936  
Db 960 GCTATATGAATCCGCTTCAGCATCTCTGTCACCGGGCAGGAGGAGGTTTCGGGCTCAT 1019  
Qy 937 CCCCAAGGCGTCACTGGGCAACCGGGGACGTTGGCTGGGCGTGGTCACTTTTCTG 996  
Db 1020 CCCCAAGGCGTCACTGGGCAACCGGGGACGTTGGCTGGGCGTGGTCACTTTTCTG 1079  
Qy 997 TGACCTGCTACTGCTGTATGTGGATAGAGAGCCCAATTTCTAGGAGCAAGATAGA 1056  
Db 1080 TGACCTGCTACTGCTGTATGTGGATAGAGAGCCCAATTTCTAGGAGCAAGATAGA 1139  
Qy 1057 GGAGGCCAAGGCCCGGAGCAACCGCCAACTCTGTGTGGAGGAGCTGGCCCTTGCATC 1116  
Db 1140 GGAGGCCAAGGCCCGGAGCAACCGCCAACTCTGTGTGGAGGAGCTGGCCCTTGCATC 1199  
Qy 1117 CCAAGCCGACTGGCGGAGTGTCTCAGACGGAGCTCAGCACTGCAACCCACCGGCACTGC 1176  
Db 1200 CCAAGCCGACTGGCGGAGTGTCTCAGACGGAGCTCAGCACTGCAACCCACCGGCACTGC 1259  
Qy 1177 TGCTGGGAGTCAGACACAGACACAGGATGGCCCTGTCCAACTTCTGACACCCACTTGC 1236  
Db 1260 TGCTGGGAGTCAGACACAGACACAGGATGGCCCTGTCCAACTTCTGACACCCACTTGC 1319  
Qy 1237 AACCAATTCGGGAGCCTGTAGCC 1260  
Db 1320 AACCAATTCGGGAGCCTGTAGCC 1343

## RESULT 3

US-09-381-681-1  
; Sequence 1, Application US/09381681  
; Patent No. 6255472  
; GENERAL INFORMATION:  
; APPLICANT: TAKINO, Takashi  
; APPLICANT: NAKAMURA, Yusuke  
; TITLE OF INVENTION: HUMAN GENES  
; FILE REFERENCE: Q55876  
; CURRENT APPLICATION NUMBER: US/09/381,681  
; CURRENT FILING DATE: 2000-01-10  
; EARLIER APPLICATION NUMBER: JPA 9-093044  
; EARLIER FILING DATE: 1997-03-26  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 1293  
; TYPE: DNA  
; ORGANISM: Human  
US-09-381-681-1  
Query Match 42.9%; Score 1155.8; DB 3; Length 1293;  
Best Local Similarity 99.8%; Pred. No. 5.3e-287;  
Matches 1157; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 97 GTGGGCTCTCTCGCAAAAGGCTACAGAGCGGGACCTTGGAAACCCCACTTTTCCAT 156  
Db 135 GTGGGCGCTCTCTCGCAAAAGGCTACAGAGCGGGACCTTGGAAACCCCACTTTTCCAT 194  
Qy 157 CATCACCAAACTCAAAAGGCTTTCGTCACATCAAGAGCTTGGAAACCCGCTGTG 216  
Db 195 CATCACCAAACTCAAAAGGCTTTCGTCACATCAAGAGCTTGGAAACCCGCTGTG 254  
Qy 217 GGATGTGGCCGACTTTCGTTGAAGCCACTCAGGAGAGAACTGTGTTCTTCTTGGTACCAA 276  
Db 255 GGATGTGGCCGACTTTCGTTGAAGCCACTCAGGAGAGAACTGTGTTCTTCTTGGTACCAA 314  
Qy 277 CTTCTTGTGAGCGCAGGCCCAAGTTTCAGGAGAGATGCCAGAGCACTGTCGTCCTCAT 336  
Db 315 CTTCTTGTGAGCGCAGGCCCAAGTTTCAGGAGAGATGCCAGAGCACTGTCGTCCTCAT 374  
Qy 337 GGCTAACTGCTGGTTCGAGGAGCTGCCCGAAGGGGAGGAGGACACACAGCCACCG 396  
Db 375 GGCTAACTGCTGGTTCGAGGAGCTGCCCGAAGGGGAGGAGGACACACAGCCACCG 434  
Qy 397 TGTAAAAACAGGCCAGTGTGTGTGTTCAATGGGACCCACAGGACCTGTGAGATCTGGAG 456  
Db 435 TGTAAAAACAGGCCAGTGTGTGTGTTCAATGGGACCCACAGGACCTGTGAGATCTGGAG 494  
Qy 457 TTGGTGCCTGAGAGTGGCGTTGTGCTTCGAGGCGCCCTGCTGGCCACAGGCCACAGAA 516  
Db 495 TTGGTGCCTGAGAGTGGCGTTGTGCTTCGAGGCGCCCTGCTGGCCACAGGCCACAGAA 554  
Qy 517 CTTTCACTGTTTCATCAAAACACAGTCACTTTCAGCAAGTTCACTTCTTAAGTCCAA 576  
Db 555 CTTTCACTGTTTCATCAAAACACAGTCACTTTCAGCAAGTTCACTTCTTAAGTCCAA 614  
Qy 577 TGCCTTGGAGACTGGGACCCCACTATTTTAAGCACTGCGCTATGAACCAATTCAG 636  
Db 615 TGCCTTGGAGACTGGGACCCCACTATTTTAAGCACTGCGCTATGAACCAATTCAG 674  
Qy 637 CCCCTACTGTCGCGTTCGCAATTTGGGACCTCTGTGCAAGGCTGGAGGACCTTCGA 696  
Db 675 CCCCTACTGTCGCGTTCGCAATTTGGGACCTCTGTGCAAGGCTGGAGGACCTTCGA 734  
Qy 697 GGACCTGGCGTGTGCGGTGGCTCTGTAGGCACTCAGATTCACTGGGATTTGACCTGGA 756  
Db 735 GGACCTGGCGTGTGCGGTGGCTCTGTAGGCACTCAGATTCACTGGGATTTGACCTGGA 794  
Qy 757 CACCGGGACTCTGGCTGCTGGCCCTCACTACTCTTTCAGCTGCAGGAGAGGCTACAA 816  
Db 795 CACCGGGACTCTGGCTGCTGGCCCTCACTACTCTTTCAGCTGCAGGAGAGGCTACAA 854  
Qy 817 CTTCAAGGACAGCACTCACTGTGGGAGCAACCGGCTGTGGAGGCCCGCACCTGTCTAA 876  
Db 855 CTTCAAGGACAGCACTCACTGTGGGAGCAACCGGCTGTGGAGGCCCGCACCTGTCTAA 914  
Qy 877 GCTCTATGGAATCCGCTTCGACATCTCTGTCACCGGGCAGGAGGAGTTTCGGGCTCAT 936  
Db 915 GCTCTATGGAATCCGCTTCGACATCTCTGTCACCGGGCAGGAGGAGTTTCGGGCTCAT 974  
Qy 937 CCCCACCGCGTCACTAGGAGCAACCGGGGACCTTGGCTGGGCGTGGTCACTTTTCTG 996  
Db 975 CCCCACCGCGTCACTAGGAGCAACCGGGGACCTTGGCTGGGCGTGGTCACTTTTCTG 1034  
Qy 997 TGACCTGCTACTGCTGTATGTGGATAGAGAACCCCACTTTCTACTGGAGCAAGATAGA 1056  
Db 1035 TGACCTGCTACTGCTGTATGTGGATAGAGAACCCCACTTTCTACTGGAGCAAGATAGA 1094  
Qy 1057 GGAGGCCAAGGCCCGAAGGACCCCACTCTGTGTGGAGGAGCTGGCCCTTGCATC 1116

Db	1095	GGAGGGCAAGGGCCCCGAAAGCAACCTGTGTGTGAGGAGCTGGCCCTTGCATC	1154
Qy	1117	CCAAGCCGACTGGCCGAGTGCTTCAGACGAGCTCAGACACTTGACACCGGCCACTGC	1176
Db	1155	CCAAGCCGACTGGCCGAGTGCTTCAGACGAGCTCAGACACTTGACACCGGCCACTGC	1214
Qy	1177	TGCTGGGAGTCAGACACAGACACACGAGATGGCCCTGTCCAAGTTCTTGACACCCACTTGC	1236
Db	1215	TGCTGGGAGTCAGACACAGACACACGAGATGGCCCTGTCCAAGTTCTTGACACCCACTTGC	1274
Qy	1237	AACCCATTCCGGGAGCCTG	1255
Db	1275	AACCCATTCCGGGAGCCTG	1293

## RESIT.T 4

```

US-09-191-136-28
; Sequence 28, Application US/09191136B
; Patent No. 6214581
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Lynch, Kevin J.
; APPLICANT: Burgard, Edward C.
; APPLICANT: Van Biesen, T.
; TITLE OF INVENTION: Nucleic Acids Encoding A Functional
; TITLE OF INVENTION: Human Purinoreceptor P2X3 and P2X6 And Methods Of Production
; TITLE OF INVENTION: And Use Thereof
; FILE REFERENCE: 6293 US, P1
; CURRENT APPLICATION NUMBER: US/09/191,136B
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 09/008,526
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 09/008,185
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 60/071,298
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 60/071,669
; EARLIER FILING DATE: 1998-01-16
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 28
; LENGTH: 396
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Sequencing Primer
US-09-191-136-28

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Db	301	TCAGACACAGACACAGAGATGGCCCTGTCCAAAGTTCTGACACCCACTTGCACCCCATTC	360
Qy	1246	CGGAGCCTGTAGCCGTTCCCTGCTGGTTGAGATT	1281
Db	361	CGGAGCCTGTAGCCGTTCCCTGCTGGTTGAGATT	396

## RESULT 5

```

US-09-949-016-367
; Sequence 367, Application US/09949016
; Patent NO. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 367
; LENGTH: 1978
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-367

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Qy	635	AGCCCTACTGTC	CGGTGTTCCG	CATGGGGAC	TCTGTGGCC	CAAGGCTG	GAGGGAC	CTTC	694
Db	712	AACCACTACTG	CCCCCATCTT	CCGACTGGG	CTCCATCGT	CGCTCGG	CCGGAGG	CACTTC	771
Qy	695	GAGGACCTGG	CGTGTGCTGG	TGGGTCTGT	AGGCATCAG	AGTTCAC	TGGGATTGT	GACCTG	754
Db	772	CAGGATATAG	CCCTGCGAG	GTGGCTGAT	AGAAATTAAT	ATTGAAT	TGGAAC	TGTGATCTT	831
Qy	755	GACACGGG	GNACTGGCT	GTGGCTC	ACTACTCTCT	TCAGTTC	GAGTCG	AGGAGNA	809
Db	832	GATAAAGCTG	CTCTGAGT	GCACCCCT	CACATATCTT	TTAGCCCT	TGGACAT	AAACTT	891
Qy	810	-----	-----	-----	GCTACA	CACTTCAGG	CAGCCA	CTCACTG	850
Db	892	TCAAAGTCTG	TCTCTCC	TCCGGGTACA	ACTTCAGATTT	TGCCAGAT	TATTACCG	AGACGCG	951
Qy	851	GGTGTGAG	GGCCGAC	CCCTGCTCA	AGCTCTAT	TGGAATCCG	CTTCGAC	ATCCTCGT	910
Db	952	GGGGTGAG	TTCCGAC	CCCTGATGA	AGCCTAC	CGGATCCG	CTTTGAC	GTATGGTGA	1011
Qy	911	GGGCAGG	CAGGGA	ATTGCG	930				
Db	1012	GGCAAGG	GTCTTTCT	CTG	1031				

## RESULT 6

```

US-09-016-434-831
; Sequence 831, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HERewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 831:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1750 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: SCORNO01
; CLONE: 555697
US-09-016-434-831

```

; GENERAL INFORMATION:  
 ; APPLICANT: HILLMAN, JENNIFER L.  
 ; APPLICANT: COLEMAN, ROGER  
 ; TITLE OF INVENTION: NOVEL HUMAN PURINORECEPTOR  
 ; NUMBER OF SEQUENCES: 5  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
 ; STREET: 3174 Porter Drive  
 ; CITY: Palo Alto  
 ; STATE: CA  
 ; COUNTRY: US  
 ; ZIP: 94304  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: DOS  
 ; SOFTWARE: FastSeq Version 1.5  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/742,621  
 ; FILING DATE: Filed Herewith  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER:  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Billings, Lucy J.  
 ; REGISTRATION NUMBER: 36,749  
 ; REFERENCE/DOCKET NUMBER: PF-0147 US  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 415-855-0555  
 ; TELEFAX: 415-845-4166  
 ; INFORMATION FOR SEQ ID NO: 2:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1762 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: cDNA  
 ; IMMEDIATE SOURCE:  
 ; LIBRARY:  
 ; CLONE: CONSENSUS  
 ; US-08-742-621-2  
  
 Query Match 8.8%; Score 239.2; DB 2; Length 1762;  
 Best Local Similarity 56.3%; Pred. No. 3.6e-51;  
 Matches 529; Conservative 0; Mismatches 378; Indels 33; Gaps 3;  
  
 QY 152 TCCATCATCAACAACTCAAGGGGTTTCCGTCACCTCAGATCAAGGAGCTTGGAACCGG 211  
 DB 214 TCCGTTACACCAAGTCAAGGCGGTGGCTGTGACCAACACTTCTAAACTTGGATTCCGG 273  
  
 QY 212 CTGTGGGATGTGGCCGACTTCGTGAAGCCACCTCAGGAGAGAGAGTGTCTTCTTGTG 271  
 DB 274 ATCTGGGATGTGGCGATTATGTATACAGCTCAGGAGGAAACTCCCTCTTCTGTCATG 333  
  
 QY 272 ACCAATCTCTGTGAGCGGCCAGCCCAAGTTTCAAGGAGATGCGCAGAGACCCGCTCCGTC 331  
 DB 334 ACCAAGCTGATCTCACCATTCAACCAAGACACAGGCGCTGTGCGCGAGATTCTCAGAT 390  
  
 QY 332 CCACTGGCTAACTGCTGGGTGACAGGAGTCCCGGAGGGGAGGAGGACACACAGC 391  
 DB 391 GCGACACTGTGTAAATCAGATGCGAGTGTACTGCCGGCTCTGCCGGACCCACACAGC 450  
  
 QY 392 CACGGTGTAAACAGCGCCAGTGTGTGTGTGTTCAATGGGACCCACAGGACCTGTGAGATC 451  
 DB 451 AACGGAGTCTCAACAGGCGAGTGGTAGCTTTCAACGGGTCCGTCAAGACGTGTGAGGTG 510  
  
 QY 452 TGGAGTTGGTCCGAGTGAGAGTGGC-----GTTGTGCCCTCGAGGCGCCCTGTGCGCCAG 508  
 DB 511 GCGGCGCTGGTGGCGGTGGAGGATGACACACAGTGGCCCAACCTGCTCTTTTAAAGGCT 570  
  
 QY 509 GCGCAAGACTTCACACTGTTTCAATAAACAACAGTCACTTCCAGCAAGTTCAACTTCTCT 568  
 DB 571 GCAGAAACTTCACCTCTTTTGGTTAAGAACAACTCTGGTATCCCAAAATTTAAATTCAGC 630

QY 569 AAGTCCAATGCTTGGAGACCTGGGACCCCACTATTTTAAAGCACTGCCGCTATGAACA 628  
 DB 631 AAGAGGAATATCTTCCCAACATACACCACTATTACCTCAAGTCGTGCAATTTATGATGT 690  
  
 QY 629 CAATTCAGCCCTACTGTCCCGTGTTCGCAATGGGACCTCGTGGCCCAAGCTGGAGGG 688  
 DB 691 AAAACAGATCCCTTCTGCCCCATATTCGCTCTTGGCAAAATAGTGGAGAACGACGACAC 750  
  
 QY 689 ACCTTCGAGGACCTGGCGTGTCTGGGTGGCTCTGTAGGCATCAGAGTTCACTGGGATGT 748  
 DB 751 AGTTTCCAGGACATGGCCGTGGAGGGAGGCATCATGGGCATCCAGGTCAACTGGGACGTC 810  
  
 QY 749 GACCTGGACACCGGGGACTCTGGCTGTGGCTCACTACTCTCTTCAGTGTGAGGAGA-- 806  
 DB 811 AACCTGGACAGAGCCGCTCCCTCTGCTTGGCCAGGTACTCTTCCGCGGCTCGATACA 870  
  
 QY 807 -----AGAGCTAACACTTCAGGACAGCACTCACTGGTGG 841  
 DB 871 CGGGAGCTTGAGCACAAAGTATCTCTGGCTACAATTTCAAGTTTGCACAGTACTACAGA 930  
  
 QY 842 GAGCAACCGGTGTGGAGCGCGCACCTGCTCAAGCTCTATGGAATCGCTTCGACATC 901  
 DB 931 GACCTGGCTGGCAACGAGCGACGCTCATCAAGGCTATGGCATCCGCTTCGACATC 990  
  
 QY 902 CTCGTCACCGGCGAGGGAAGTTCCGGGCTCATCCCAAGGCTCAGACTGGGCGACC 961  
 DB 991 ATTGTGTTTGGAGGCGAGGAAATTTGACATCATCCCACTATGATCAACATCGGCTCT 1050  
  
 QY 962 GGGGCGAGTTGGTGGGCGTGTCACTTTTCTGTGACCTGCTACTGCTGTATGTGAT 1021  
 DB 1051 GGCCTGGCACTGTAGGCATGGCGACCGTGTGTGTGACATCATAGTCTCTTACTGCATG 1110  
  
 QY 1022 AGAGAGGCCATTCTACTTGGAGGACAAAGTATGAGGAGG 1061  
 DB 1111 AGAAAAGACTCTACTATCGGGAGAGAAATATAAATATG 1150  
  
 RESULT 8  
 US-09-191-608-21  
 ; Sequence 21, Application US/09191608  
 ; Patent No. 6242216  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lynch, Kevin J.  
 ; APPLICANT: Burgard, Edward C.  
 ; APPLICANT: Metzger, Randy E.  
 ; APPLICANT: Niforatos, Wende  
 ; APPLICANT: Touma, Edward B.  
 ; APPLICANT: Van Biesen, T.  
 ; TITLE OF INVENTION: Nucleic Acids Encoding a Functional  
 ; TITLE OF INVENTION: Human Purinoreceptor P2X2 and P2X4 And Methods Of Production  
 ; FILE OF INVENTION: And Use Thereof  
 ; FILE REFERENCE: 6394.US.P1  
 ; CURRENT APPLICATION NUMBER: US/09/191,608  
 ; CURRENT FILING DATE: 1998-11-13  
 ; NUMBER OF SEQ ID NOS: 26  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 21  
 ; LENGTH: 1206  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-191-608-21  
  
 Query Match 8.8%; Score 237.6; DB 3; Length 1206;  
 Best Local Similarity 56.2%; Pred. No. 7.7e-51;  
 Matches 528; Conservative 0; Mismatches 379; Indels 33; Gaps 3;  
  
 QY 152 TCCATCATCAACAACTCAAGGGGTTTCCGTCACCTCAGATCAAGGAGCTTGGAACCGG 211  
 DB 207 TCCGTTACGACCAAGTCAAGGCGGTGGCTGTGACCAACTTCTAAACTTGGATTCCGG 266  
  
 QY 212 CTGTGGGATGTGGCGGACTTCGTGAAGCCACTCAGGAGAGAGAGTCTTCTTCTGTG 271



Db 267 ATCTGGGATGTGGCGGATTAATGTATATACAGCTCAGGAGGAAAACTCCCTCTCTTCGTCTCATG 326  
QY 272 ACCAACTTCTTGTGTGACCGCAGCCCAAGTTTCAGGCGAGATGCCAGAGCACCGCTCCGTC 331  
Db 327 ACCAAGTGTATCTTCAACATGAACACAGACACAGGCGCTGTGCCCGAGATTC---CAGAT 383  
QY 332 CCACTGGCTTAATCTGTGGTTCAGCAGGAGCTGCCCGGAAGGGGAGGAGGACACACAGC 391  
Db 384 GCGACCACTGTGTAAATCAGATGCACGTCTACTGCGCGCTCTGCCGCGCACCCACAGC 443  
QY 392 CACGCTGTAAACAGGCGCAGTGTGTGTGTCAATGGGACCCACACAGGACCTGTGAGATC 451  
Db 444 AACGAGTCTCAACAGGCGAGGTGCGTAGCTTCAACGGGTCCGTCAAGACGTGTGAGGTG 503  
QY 452 TGGAGTGTGTCGCCAGTGGAGAGTGGC---GTTGTGCCCTCGAGGCGCCCTGCTGCCGCCAG 508  
Db 504 GCGGCTGTGTGCCGCTGGAGGATGACACACAGTGCACACACCTGCTTTTAAAGGCT 563  
QY 509 GCCGAGAACTTCACTGTTCATCAAAACACAGTCACTTCAGCAGTTCACTTCTCT 568  
Db 564 GCAGAAACTTCACTCTTTTGTGTAAAGAACACATCTGGTATCCCAAAATTTAAATTTTCAGC 623  
QY 569 AAGTCCAATGCCCTTGAGAGCTGGGACCCACCTATTTTAAACACTTGCCTGATGAACA 628  
Db 624 AAGAGGAATATCTTCCCAACATCACCTACTTACCTCAAGTCGTGCAATTTATGATGT 683  
QY 629 CAATTCAGCCCTACTGTCCCGTGTTCGCAATGGGACCTCGTGCCCAAGGCTGGAGG 688  
Db 684 AAAACAGATCCCTCTGCGCCCATATTCCTGTTCGCAAAATAGTGGAGAACCGCAGAC 743  
QY 689 ACCTTCGAGGACCTGGCGTGTGTGGTGTCTGTAGGATCAGAGTTCACTTGGGATGT 748  
Db 744 GGTTCCTCAGGACATGGCCGTGGAGGAGGACATCATGGGCATCCAGTCAACTGGGACTGC 803  
QY 749 GACCTGGACACGGGACCTCGCTGCTGGCTCACTACTCTCTCCAGTCCAGTGCAGAGA-- 806  
Db 804 AACCTGGACAGAGCGCCCTCTCTGTGTGCCCAGGTACTCTTCCGCGCCTCGATACA 863  
QY 807 -----AGAGCTACAACCTTCAGACACGCCACTCACTGTGTGG 841  
Db 864 CGGGACGTTGAGCACAACGTATCTCTGTGCTACAAATTCAGGTTTGGCAAGTACTACAGA 923  
QY 842 GAGCAACCGGTTGTGAGGCGCGCACCTGTCAAGCTCTATGGAATCCGCTTCGACATC 901  
Db 924 GACCTGGCTGGCAACGAGCAGCGCGACGCTCATCAAGGCGCTATGGCATCCGCTTCGACATC 983  
QY 902 CTCCTCACCGGCGCAGGAGGAGTTCGGGCTCATCCCAAGCGCTCACTGGGCGACC 961  
Db 984 ATGTGTTTGGGAAGGCGAGGAGAAATTTGACATCATCCCCCACTATGATCAACATCGGCTCT 1043  
QY 962 GGGGCGAGCTTGGCTGGCGGTGTGTCACTTTTCTGTGACCTGCTACTGTGTATGTGGAT 1021  
Db 1044 GGCCTGGCACTGTAGGCATGGCGCGCTGTGTGTGACATCATATGCTCTACTGTGATG 1103  
QY 1022 AGAAGAGCCATTTCTTACTTGGAGGACAAAGTATGAGGAG 1061  
Db 1104 AAGAAAAGACTCTACTATCGGAGAGAAATATAAATATG 1143

## RESULT 9

US-09-949-016-3548  
; Sequence 3548, Application US/09949016  
; Patent No. 681239  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: PaetSEQ for Windows Version 4.0  
; SEQ ID NO 3548  
; LENGTH: 1389  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-3548

Query Match 8.8%; Score 237.6; DB 4; Length 1389;

Best Local Similarity 56.2%; Pred. No. 8.3e-51;

Matches 528; Conservative 0; Mismatches 379; Indels 33; Gaps 3;

QY 152 TCATCATCATCCAAACTCAAAGGGGTTTCGGTCACTCAGATCAAGAGGCTTCGAAACCGG 211  
Db 214 TCCGTTACGACCAAGTCAAGGGCGTGGCTGTGACCAACACTTCTAAACTTGGATTCGG 273  
QY 212 CTGTGGGATGTGGCCGACTTCGTGAAGCCACTCAGGAGAGAAACGTGTCTTCTTGGTG 271  
Db 274 ATCTGGGATGTGGCGGATTTATGTATACCAAGCTCAGGAGGAAAACTCCCTCTTCGTG 333  
QY 272 ACCAATTCCTTGTGACGCCAGCCCAAGTTTCAGGCGAGATGCCAGAGCACCGTCCGTC 331  
Db 334 ACCAAGCTGATCTCACCATGAACACAGACACAGGCGCTGTGCCCGAGATTC---CAGAT 390  
QY 332 CCACCTGGCTTAATCTGTGTCGACGAGACTGCCCGGAAGGGGAGGAGGACACACAGC 391  
Db 391 GGGACCACTGTGTGAATCAGATCCAGCTGTACTGCCGCTCTGCCGCGACCCACAGC 450  
QY 392 CACGCTGTAAACAGGCGAGTGTGTGTGTCAATTTGAAGGACCCACAGGACCTGTGAGATC 451  
Db 451 AACGAGTCTCAACAGGCGAGTGTGTGTGTCAACGGGCTGTCAAGACGCTGTGAGGTG 510  
QY 452 TGGAGTGTGGTCCAGTGGAGAGTGGC---GTTGTGCCCTCGAGGCGCCCTGTGCGCCAG 508  
Db 511 GCGGCTGTGGTCCCGTGGAGGATGACACACAGTGCACACACCTGCTTTTAAAGGCT 570  
QY 509 GCCAGAACTTCACACTGTTCATCAAAACACAGTCACCTTCAGCAAGTTCACTTCTCT 568  
Db 571 GCAGAAACTTCACCTTTTGGTTAAGAACACATCTGGTATCCCAATTTAATTTTCAGC 630  
QY 569 AAGTCCAATGTCTGGAGACCTGGGACCCCACTATTTTAAAGCACTGCCGCTATGAACA 628  
Db 631 AAGAGGAATATCTTCCCAACATCACCTACTTACCTCAAGTCGTGCTATTTATGATGT 690  
QY 629 CAATTCAGCCCTACTGTCCCGTGTTCGCAATGGGACCTCGTGCCCAAGCTGGAGGG 688  
Db 691 AAAACAGATCCCTCTGCGCCCATATTTCCGTCTTGGCAAAATAGTGGAGAACCGAGAC 750  
QY 689 ACCTTCGAGGACCTGGCGTGTGTGGTGTGCTGTAGGCATCAGAGTTCACTTGGGATGT 748  
Db 751 AGTTTCAGGACATGCGCGTGGAGGAGGACATCATGGGCATCCAGGTCACTTGGGACTGC 810  
QY 749 GACCTGGACACCGGAGACTGTGGCTGTGGCTCACTACTCTCTTCAGTGCAGAGAGA-- 806  
Db 811 AACCTGGACAGAGCGCGCTCTCTGTGTGCCAGGTACTCTCTGCGCGCCTCGATACA 870  
QY 807 -----AGAGCTACAACCTTCAGGACAGCCACTCACTGTGTGG 841  
Db 871 CGGGACGTTGAGCACAACGTATCTCTGTGCTACAAATTCAGGTTTGGCCAACTACACA 930  
QY 842 GAGCAACCGGTTGTGAGGCGCGCACCTGTCTCAAGCTCTATGGAATCCGCTTCGACATC 901  
Db 931 GACCTGGCTGGCAACGAGCAGCGCGCATCATAGGCTATGGCATCCGCTTCGACATC 990  
QY 902 CTCCTCACCGGCGCAGGAGGAGTTCGGGCTCATCCCAAGCGCTCACTGGGCGACC 961  
Db 991 ATGTGTTTGGGAAGGCGAGGAGAAATTTGACATCATCCCCCACTATGATCAACATCGGCTCT 1050  
QY 962 GGGGCGAGCTTGGCTGGCGGTGTGTCACTTTTCTGTGACCTGCTACTGTGTATGTGGAT 1021

Db 1051 GGCTGGCACTGCTAGGCATGGCGACCGCTGCTGTGTGACATCATAGTCTCTACTGCAATG 1110  
QY 1022 AGAAGAGCCATTCTTACTTGGAGGACAAAGTATGAGGAGG 1061  
Db 1111 AAGAAAGACTTCTACTATCGGGAGAGAAATATAATATG 1150  
RESULT 10  
US-09-949-016-4136  
; Sequence 4136, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4136  
; LENGTH: 2597  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-4136

Query Match 8.7%; Score 233.4; DB 4; Length 2597;  
Best Local Similarity 56.7%; Pred. No. 1.4e-49;  
Matches 526; Conservative 0; Mismatches 371; Indels 30; Gaps 4;  
QY 164 AAACCTCAAGGGGTTTCCTCTACTCAGATCAAGGAGCTTTGGAACCGGCTGTGGGATGTG 223  
Db 376 AAACCTCAAGGGGCTGGCCGTGAGCCAGCTCCCTGGCCCTCGGCCCCAGGTCTGGGATGTG 435  
QY 224 GCGGACTTGTGAGCCACTCAGGAGAGAGGTGTTCTTCTTGGTGACCACTTCCTT 283  
Db 436 GTGACTACTGTTTCCAGCCAGGAGGAGGACACTCCTTCTGTTGATGACCAATTTTCATC 495  
QY 284 GTGACCCAGCCAGCTTCAAGGCGAGATGCCAGAGCACCCTGCTCCCTGCTGCTAAC 343  
Db 496 GTGACCCAGGAGACTCAAGGCTACTGCGCAGAGCACCC-----AGAGGGGGCATA 549  
QY 344 TGCTGGTTCGACGAGGACTGCCCCGAGAGGGAGGAGGACACACAGCCACCGTGTAAAA 403  
Db 550 TGCAAGGAAGACAGTGGCTGTACTCCCTGGGAAGGCCAAGAGGAGGCCCAAGGCATCCGC 609  
QY 404 ACAGGCCAGTGTGGTGTTCATGGGACCCACAGGACCTGTGAGATCTGGAGTTGGTGC 463  
Db 610 ACGGGCAAGTGTGGCTTCAACGACACTGTGAAGACGTGTGAGATCTTTGGCTGGTGC 669  
QY 464 CCAGTGGAGAGTGGGCTTGTGCTCCGAGGC---CCCTGCTGGCCAGGCCCCAGAACTTC 520  
Db 670 CCGTGGAGGTGTGATGACGACATCCCGGCCCTGCTCCGAGAGGCCAGAACTTC 729  
QY 521 ACACGTGTTCAATAAAGACAGTCACTACCTTCAGCAAGTTCAATCTCTTAAGTCCAAATGCC 580  
Db 730 ACTCTTTTTCATCAAGAACAGCAGTACGCTTTCACAGCTTCAAGGTCAACAGGGCGCAACTG 789  
QY 581 TTGGAGACTGGGACCCCACTATTTAAGCACTGCGCTATGAACCAATTCAGCCCC 640  
Db 790 GTGGAGGAGGTGAATGCTGCTCCACATGAAGACTGCTCTTTCACAAAGCCCTGACCCCC 849  
QY 641 TACTGTCCCGTGTTCGCAATTTGGGACCTCGTGGCCAAAGGCTGGAGGACCTTTCAGGAC 700  
Db 850 CTGTGCCCCAGTCTTCCAGCTTGGCTACGTGGTGTGCAAGAGTCAAGGCCAGCACTTCAGACC 909  
QY 701 CTGGCGTGTGGTGGCTCTGTAGGCATCAGAGTTCACTGGGATGTGACCTGGACACC 760

Db 910 CTGGCTGAGAAAGGTGGAGTGGTTGGCATCCATCGACTGSCACTGTGACCTGGACTGG 969  
QY 761 GGGGACTCTGGCTGTGGCTCAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 809  
Db 970 CACGTACGGCACTGAGAGCCCATCTATGAGTTCCATGGCTGTAGCAAGAGAAAAATCTC 1029  
QY 810 -----GCTACAACTTCAGGACAGCCACTCACTGGTGGGAGCAACCGGTTGTGGAGGCC 862  
Db 1030 TCCCAGGCTTCACTTTCAGGTTTCCAGGCACTTTTGGGAGAAC---GGGACCAACTAC 1086  
QY 863 CGCACCTGCTCAAGCTCTATGGAATCCGCTTCGACATCTCTCTCTCTCTCTCTCTCTCTCT 922  
Db 1087 CGTCACTCTTCAAGGTGTGGGATTCGCTTTGACATCTCTCTCTCTCTCTCTCTCTCTCT 1146  
QY 923 AAGTTGGGCTCATCCCCAGGCCGCTCACTCTGGGACCGGGGACGCTTGGCTGGGCGTG 982  
Db 1147 AAGTTTGACATCATCCCTACAAATGACCACTCGCTCTGGAATTTGGCATCTTTGGGCTG 1206  
QY 983 GTCACTTTTCTGTGACCTGCT 1042  
Db 1207 GCCACAGTTCTGTGACCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1266  
QY 1043 AGGACAAAGTATGAGGAGGCCCAAGGCC 1069  
Db 1267 CAGAAAGATTCAAATACGCTGAGGAC 1293

RESULT 11  
US-08-750-134A-10  
; Sequence 10, Application US/08750134A  
; Patent No. 5985603  
; GENERAL INFORMATION:  
; APPLICANT: VALERA, SOLEDAD  
; TITLE OF INVENTION: P2X RECEPTORS (PURINOCEPTOR FAMILY)  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: NIXON & VANDERHYE P.C.  
; STREET: 1100 NORTH GLEBE ROAD  
; CITY: ARLINGTON  
; STATE: VIRGINIA  
; COUNTRY: U.S.A.  
; ZIP: 22201-4714  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/750,134A  
; FILING DATE: 22-JAN-1997  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: CRAWFORD, ARTHUR C.  
; REGISTRATION NUMBER: 25,327  
; REFERENCE/DOCKET NUMBER: 1430-116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 816-4006  
; TELEFAX: (703) 816-4100  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2643 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
US-08-750-134A-10

Query Match 8.7%; Score 233.4; DB 2; Length 2643;  
Best Local Similarity 56.7%; Pred. No. 1.4e-49;  
Matches 526; Conservative 0; Mismatches 371; Indels 30; Gaps 4;

QY 164 AACTCAAGGGGTTTCCTCACTCAGATCAAGGAGCTTGGAAACCGGCTGTGGATGTG 223  
DB 375 AACTCAAGGGGCTGGCGTGAGCCAGCTCCTGGCCCTGGCCCGGCTGTGGATGTG 434  
QY 224 GCGCACTTCGTGAAGCCACTCAGGAGAGAGAGTGTCTTCTGTGTGACCAACTTCCTT 283  
DB 435 GTGTACTAGTCTTCCAGCCAGGAGGAGCACTCCTTGTGTGATGACCAATTCATC 494  
QY 284 GTGAGCCAGCCCAAGTTTCAGGCGAGATGCCAGAGACCCCTGCTCCACTGGCTAAC 343  
DB 495 GTGACCCCGAAGCAGACTCAAGGCTACTGCGCAGAGCACCC-----AGAAGGGGGCATA 548  
QY 344 TGCTGGGTGCGAGGAGCTGCCCGAAGGGGAGGGGACACACAGCCACCGTGTAAAA 403  
DB 549 TGCAAGGAGAGCAGTGGGTGTATACCCCTGGAAAGGCCAAGAGGAGCCCAAGGCAATCCGC 608  
QY 404 ACAGGCGAGTGTGTGTGTCAATGGGACCCCAAGGACCTGTGAGATCTGTGGATGTGTC 463  
DB 609 ACGGCAAGTGTGTGGCTTCAACGACACTGTGAGAGCTGTGAGATCTTGTGTGTGTC 668  
QY 464 CCAGTGGAGAGTGGCGTTGTGCTCGAGCC---CCCTGTGCTGGCCAGGCCCCAGAACTTC 520  
DB 669 CCGTGGAGTGGATGACGACATCCCGGCCCTGCTCCAGAGAGCCCGAGAACTTC 728  
QY 521 ACAGTGTTCATCAAAAACAGTCACTTCAGAGAGTTCACCTTCTTAAGTCCAAATGCC 580  
DB 729 ACTCTTTTTCATCAAGAACAGTCACTGCTTCCACGCTTCAAGGTCAACAGGGGCAACTG 788  
QY 581 TTGGAGACTGGGACCCCACTATTTAAGCACTGCGCTATGAACCAATTCAGCCCC 640  
DB 789 GTGGAGAGGTGAATGCTGCCACATGAAGACTGCTCTTTCACAGACCCTGACCC 848  
QY 641 TACTGTCCGTTTCGCGATTTGGGACCTCTGTGGCCAGGCTGTGGAGGACCTTTCAGGAG 700  
DB 849 CTGTGCCAGTCTTCCAGCTTGGTGTGCTGAGAGTCAAGAGTCAAGGCCAGAACTTCAGCAC 908  
QY 701 CTGGGCTGTGCTGGTGTGCTGTAGGATCAGATTCAGTGGATGTGACCTGACAC 760  
DB 909 CTGGCTGAGAGGGTGGAGTGTGGCATCACCATCGACTGGCATCTGTGACCTGTGACTG 968  
QY 761 GGGGACTCTGGCTGTGCTGCTCACTACTCTTCCAGCTGACGAGAGAA-----809  
DB 969 CACGTACGGCACTGAGACCCATCTATGAGTTCCATGGGCTGTACGAGAGAAAATCTC 1028  
QY 810 -----GCTACAACTTCAGGACAGCACTCACTGTGTGGAGCAACCGGCTGTGGAGCC 862  
DB 1029 TCCCCAGGCTTCACTTCAAGTGTGCCAGGCACTTGTGAGAAC---GGGACCACTAC 1085  
QY 863 CGCACCTGCTCAAGCTCTATGGAATCCGCTTTCAGATCCTGTCAACCGGGCAGGAGGG 922  
DB 1086 CGTCACCTCTTCAAGGTGTGGGATTCGCTTTGACATCCTGTGTGACCGGCAAGGCCGGG 1145  
QY 923 AGTTTCGGGCTATCCCAAGGCGCTCACTACCTGGGACCGGGGAGCTTGGCTGGGCTG 982  
DB 1146 AAGTTTGACATCATCCCTTCAATGACCACTATCGGCTCTGGAATTTGGCACTTTTGGGGTG 1205  
QY 983 GTCACTTTTCTGTGACCTGCTACTGTGTGTATGTGATAGAGAGCCCAATTTCTACTGG 1042  
DB 1206 GGCACAGTCTCTGTGACCTGCTGTGCTTCTCATCTCTCATCTCTCTCAATGAGGCACTACTACAG 1265  
QY 1043 AGCAAAAGTATGAGAGGCCAAGGCC 1069  
DB 1266 CAGAAGAGTTCAAAATACGCTGAGGAC 1292

## RESULT 12

US-09-363-745-10

; Sequence 10, Application US/09363745

; Patent No. 6194162

; GENERAL INFORMATION:

; APPLICANT: VALERA, SOLEDAD

; APPLICANT: BUELL, GARY

; TITLE OF INVENTION: P2X RECEPTORS (PURINORECEPTOR FAMILY)

NUMBER OF SEQUENCES: 11  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: NIXON & VANDERHYE P.C.  
STREET: 1100 NORTH GLEBE ROAD  
CITY: ARLINGTON  
STATE: VIRGINIA  
COUNTRY: U.S.A.  
ZIP: 22201-4714  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/363,745  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/750,134  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: CRAWFORD, ARTHUR C.  
REGISTRATION NUMBER: 25,327  
REFERENCE/DOCKET NUMBER: 1430-116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 816-4006  
TELEFAX: (703) 816-4100  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2643 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
US-09-363-745-10

Query Match 8.7%; Score 233.4; DB 3; Length 2643;

Best Local Similarity 56.7%; Pred. No. 1.4e-49;

Matches 526; Conservative 0; Mismatches 371; Indels 30; Gaps 4;

QY 164 AACTCAAGGGGTTTCCTCACTCAGATCAAGGAGCTTGGAAACCGGCTGTGGATGTG 223  
DB 375 AACTCAAGGGGCTGGCGTGAGCCAGCTCCTGGCCCTGGCCCGGCTGTGGATGTG 434  
QY 224 GCGCACTTCGTGAAGCCACTCAGGCGAGAGAGTGTCTTCTGTGTGACCAACTTCCTT 283  
DB 435 GTGTACTAGTCTTCCAGCCAGGAGGAGCACTCCTTGTGTGATGACCAATTCATC 494  
QY 284 GTGAGCCAGCCCAAGTTTCAGGCGAGATGCCAGAGACCCCTGCTCCACTGGCTAAC 343  
DB 495 GTGACCCCGAAGCAGACTCAAGGCTACTGCGCAGAGCACCC-----AGAAGGGGGCATA 548  
QY 344 TGCTGGGTGCGAGGAGCTGCCCGAAGGGGAGGGGACACACAGCCACCGTGTAAAA 403  
DB 549 TGCAAGGAGAGCAGTGGGTGTATACCCCTGGAAAGGCCAAGAGGAGCCCAAGGCAATCCGC 608  
QY 404 ACAGGCGAGTGTGTGTGTCAATGGGACCCCAAGGACCTGTGAGATCTGTGGATGTGTC 463  
DB 609 ACGGCAAGTGTGTGGCTTCAACGACACTGTGAGAGCTGTGAGATCTTGTGTGTGTC 668  
QY 464 CCAGTGGAGAGTGGCGTTGTGCTCGAGCC---CCCTGTGCTGGCCAGGCCCCAGAACTTC 520  
DB 669 CCGTGGAGTGGATGACGACATCCCGGCCCTGCTCCAGAGAGCCCGAGAACTTC 728  
QY 521 ACAGTGTTCATCAAAAACAGTCACTTCAGAGAGTTCACCTTCTTAAGTCCAAATGCC 580  
DB 729 ACTCTTTTTCATCAAGAACAGTCACTGCTTCCACGCTTCAAGGTCAACAGGGGCAACTG 788  
QY 581 TTGGAGACTGGGACCCCACTATTTAAGCACTGCGCTATGAACCAATTCAGCCCC 640  
DB 789 GTGGAGAGGTGAATGCTGCCACATGAAGACTGCTCTTTCACAGACCCTGACCC 848  
QY 641 TACTGTCCGTTTCGCGATTTGGGACCTCTGTGGCCAGGCTGTGGAGGACCTTTCAGGAG 700

Db 849 CTGTGCCAGTCTTCCAGCTTGGTACGTGGTCAAGAGTCAAGGCCAGAACTTCAGACC 908  
QY 701 CTGGGCTTCTGGTGGTCTCTAGGATCATAGTTCAGTGGATGTGACCTGACACC 760  
Db 909 CTGGCTGAGAAGGGTGGAGTGGTGGCATCACCATCGACTGGCAGCTGTGACCTGGACTGG 968  
QY 761 GGGGACTCTGGCTGGTGGCTCACTACTCTTCCAGCTGCAGGAGAAGA----- 809  
Db 969 CAGTACGGCATGACAGCCATCTATGATTCATGGCTGTACGAGAGAAAATCTC 1028  
QY 810 -----GCTACAATTCAGGACGCACTCACTGGTGGGACCAACCGGGTGTGAGGCC 862  
Db 1029 TCCCGAGGCTTCAACTTCAAGTTTGCAGGCACTTTGTGGAGAAC---GGGACCAATAC 1085  
QY 863 CGACCTCTCAAGCTCTATGGAATCCGCTTCGACATCTCTGTACCGGGCAGGAGG 922  
Db 1086 CGTCACTCTTCAAGGTGTTGGGATTCGCTTGGACATCTCTGGTGGACCGCAAGCCCGG 1145  
QY 923 AAGTTCCGGCTCATCCCAACGGCGCTCACACTGGGCAACCGGGGAGCTTGGCTGGCGCTG 982  
Db 1146 AAGTTTGACATCATCCCTACATGACCACTCGGCTCTGGAATTTGGCATCTTTGGGCTG 1205  
QY 983 GTCACTTTTCTGTGACCTGTACTGTGTATGTGATGATGATGATGATGATGATGATGAT 1042  
Db 1206 GCCACAGTTCTCTGTGACCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGT 1265  
QY 1043 AGGACAAAGTATGAGGAGGCCCAAGGCC 1069  
Db 1266 CAGAAGAGTTCAATACGCTGAGGAC 1292

## RESULT 13

US-09-023-655-897

Sequence 897, Application US/09023655

Patent No. 6607879

GENERAL INFORMATION:

APPLICANT: Cocks, Benjamin G.

APPLICANT: Susan G. Stuart

APPLICANT: Jeffrey J. Seilhamer

TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE

TITLE OF INVENTION: EXPRESSION

NUMBER OF SEQUENCES: 1508

CORRESPONDENCE ADDRESS:

ADDRESS: INCYTE PHARMACEUTICALS, INC.

STREET: 3174 PORTER DRIVE

CITY: PALO ALTO

STATE: CALIFORNIA

COUNTRY: USA

ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/023,655

FILING DATE: HEREWITH

CLASSIFICATION:

PRIORITY APPLICATION DATA:

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Zeller, Karen J.

REGISTRATION NUMBER: 37,071

REFERENCE/DOCKET NUMBER: PA-0001 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650) 855-0555

TELEFAX: (650) 845-4166

INFORMATION FOR SEQ ID NO: 897:

SEQUENCE CHARACTERISTICS:

LENGTH: 2643 base pairs

TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: GENBANK  
CLONE: g1166437  
US-09-023-655-897

Query Match 8.7%; Score 233.4; DB 4; Length 2643;

Best Local Similarity 56.7%; Pred. No. 1.4e-49;  
Matches 526; Conservative 0; Mismatches 371; Indels 30; Gaps 4;

QY 154 AAACCTCAAGGGGTTTCGGTCACTCAGATCAAGGAGCTTGGAAACCGGCTGTGGGATGTG 223  
Db 375 AAACCTCAAGGGGCTGGCGGTGACCCAGCTCCCTGGCTCGGCCCCAGGTCTGGGATGTG 434  
QY 224 GCGACTTCTGTGAAGCCACCTCAGGAGAGAACGTGTTCTTCTTGGTGAACCAATTCCTT 283  
Db 435 GCTGACTACGTCTTCCAGCCAGGGGAGCAACTCTTCTGTTGTCATGACCAATTTTCATC 494  
QY 284 GTGACCGCAGCCCAAGTTTCAGGGCAGATGCCAGAGCACCGTCCGTCCCTCCCTGCTAAC 343  
Db 495 GTGACCCCGAAGCAGACTCAAGGCTACTGCGCAGAGCACCC-----AGAAGGGGGCATA 548  
QY 344 TGCTGGGTTCGACGAGACTGCCCCGAGGGGAGGAGGCACACACAGCCACCGTGTAAAA 403  
Db 549 TGCAAGGAAGACAGTGGCTGTACCCCTGGGAAGGCCAAGAGGAAGGCCCAAGGCATCCG 608  
QY 404 ACAGCCAGTGTGTGTTTCAATGGGACCCACAGGACCTGTGAGATCTGAGTTGGTGC 463  
Db 609 ACGGCAAGTGTGTGGCTTCAACGACACTGTGAAGAGCTGTGAGATCTTTGGCTGTGTC 668  
QY 464 CCAGTGGAGAGTGGGTTGTGCTTCGAGGC---CCCTGCTGGCCCGAGGCCAGAACTTC 520  
Db 669 CCCGTGGAGGTGGATGACGACATCCCGCGCCCTGCTCTCCGAGAGCCGCGAGAACTTC 728  
QY 521 ACACCTGTTTCATCAAAAAACACAGTCACTTTCAGCAAGTTCAACTTCTTAAGTCCAAATGCC 580  
Db 729 ACTCTTTTCATCAAGAACAGCATCAGCTTTCACGCTTCAAGGTCAACAGGGCAACCTG 788  
QY 581 TTGAGACCTGGGACCCCACTTATTTAAGCAGTTCGCGCTATGAACCAATTCAGCCCC 640  
Db 789 GTGGAGGAGGTGAATGTGTGCCCAACATGAAGAGCTGCTCTTTTCAAGACCCGTGACCCC 848  
QY 641 TACTGTCCCGTGTTCGCAATTTGGGACCTCGTGGCCAAAGGCTGGAGGACCTTTCAGGAC 700  
Db 849 CTGTCCCGAGTCTTCCAGCTTGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 908  
QY 701 CTGGCTTGTGGTGGCTCTGTAGGATCAGAGTTCACTGGGATTTGACCTGACCTGACACC 760  
Db 909 CTGGCTGAGAAGGGTGGAGTGGTGGCATCACCATCGACTGGCACTGTGACCTGACTGG 968  
QY 761 GGGGACTCTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 809  
Db 969 CACGTACGGCACTGACAGCCCATCTATGAGTTTCCATGGGCTGTACGAGAGAGAAAAATCTC 1028  
QY 810 -----GCTACAATTCAGGACGACACTCACTGCTGGGAGCAACCGGGTGTGAGGCC 862  
Db 1029 TCCCGAGGCTTCAACTTCAAGTTTGGGATTCGCTTGGAGCACTTTGTGGAGAAC---GGGACCAATAC 1085  
QY 863 CGCACCTCTGCTCAAGCTCTATGGAATCCGCTTTCGACATCTCGTCAACCGGGCAGGAGG 922  
Db 1086 CGTCACTCTTCAAGGTGTTTGGGATTCGCTTGGAGTTCGATCTCTGTTGGAGCGGCAAGCCCGG 1145  
QY 923 AAGTTCCGGCTCATCCCAACGGCGCTCACACTGGGCAACCGGGGAGCTTGGCTGGCGCTG 982  
Db 1146 AAGTTTGACATCATCCCTACATGACCACTCGGCTCTGGAATTTGGCATCTTTGGGCTG 1205  
QY 983 GTCACTTTTCTGTGACCTGTCTACTGTGTATGTGATGATGATGATGATGATGATGATGAT 1042  
Db 1206 GCCACAGTTCTCTGTGACCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGT 1265  
QY 1043 AGGACAAAGTATGAGGAGGCCCAAGGCC 1069



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QY 398 GTAATAACAGGCCAGTGTGTGGT---TTCAATGGGACCCACAGGACCTGTGAGATCTGG 454
  |||||
Db 474 GTGAAGACCGCGCTGCTCGGAGAGAGAACTTGGCCAGGGGCACCTGTGAGATCTTT 533
  |||||
QY 455 AGTTGGTCCCAAGTGGAGAGTGGCGTGTGCGCTCGAGGCCCTGTGTGCCCCAGGCCAG 514
  |||||
Db 534 GCCTGTGCGCGTGTGGAGACAAGCTCCAGCGCGGAGGAGCCATTCCTGAAGGAGGCCGAA 593
  |||||
QY 515 AACTTCACACTGTTTCATCAAAACACAGTCACCTTCAGCAAGTTCAACTTCTTAAGTCC 574
  |||||
Db 594 GACTTCACCATTTTCATAAAGAACACATCCGTTTCCCAAAATCAACTTCTCCAAAGC 653
  |||||
QY 575 AATGCTTTGGAGACCTGGGACCCCACTATTTTAAGCACTGCCGCTATGAACCACAATTC 634
  |||||
Db 654 NATGTGATGGAGCTCAAGACAGATCTTCTGAAATCATGCCACTTTGGCCCCAAG--- 710
  |||||
QY 635 AGCCCTACTGTCCCGTGTTCGCAATTTGGGAGACCTCGTGGCCCAAGGCTGGAGGACCTTC 694
  |||||
Db 711 AACCACACTACTGCCCATCTTCCGACTGGGCTCCGTGATCCGCTGGGCGGGAGCGACTTC 770
  |||||
QY 695 GAGGACCTGGCGTGTGCTGGTGGCTCTGTAGGCATCAGAGTTCACTGGGATTTGACCTG 754
  |||||
Db 771 CAGGATATAGCCCTGGAGGGTGGCGTGATAGGAATTAATATTGAATGGAACCTGTGATCTT 830
  |||||
QY 755 GACACCGGGGACTCTGGCTGTGGCTCACTACTCTCTCCAGCTGCAGGAGAAGA----- 809
  |||||
Db 831 GATNAAGCTGCTCTGAGTGGCCACCTCACTATTCTTTTAGCCGTCTGGACATAAACTT 890
  |||||
QY 810 -----GTAACAATTTCAGGACAGCACTCACTGGTGGGAGCAACCG 850
  |||||
Db 891 TCAAAAGTCTGTCTCCTCCGGGTACAACTTCAGATTGGCCAGATATTACCGAGACGAGCC 950
  |||||
QY 851 GGTGTGGAGGCCCGCACCTGCTCAAGCTCTATGGAATCCGCTTCGACATCCTCGTCACC 910
  |||||
Db 951 GGGGTGGAGTTCCGCACCTGATGAAGCCTACGGGATCCGCTTTGACGTGATGTGAAC 1010
  |||||
QY 911 GGGCAGGCGAGGAAGTTCCG 930
  |||||
Db 1011 GGCAAGGTGCTTTCTTCTG 1030
  |||||
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Search completed: March 21, 2005, 15:47:13  
Job time : 465.018 secs